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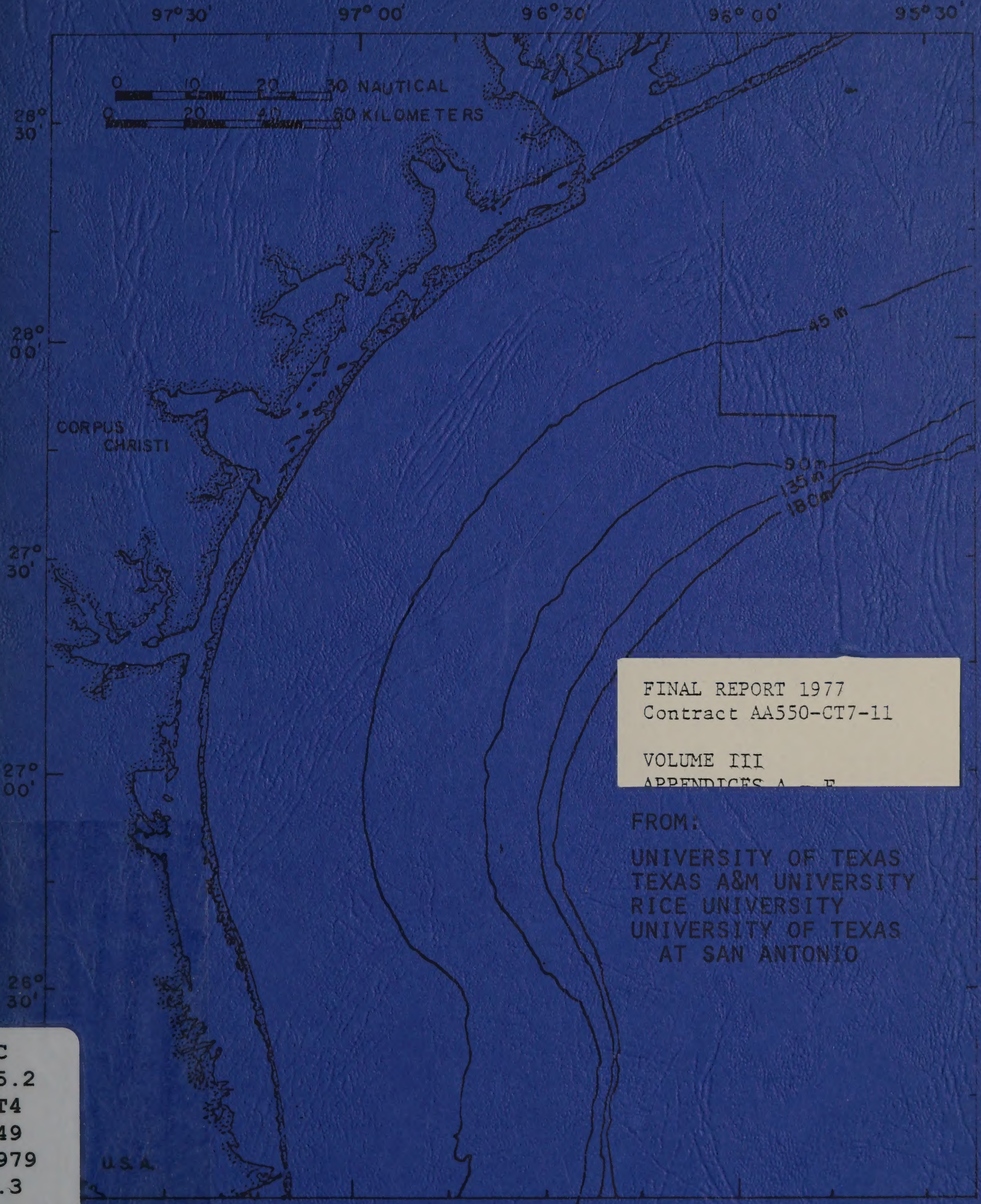

FINAL REPORT 1977
Contract AA550-CT7-11

VOLUME III
APPENDICES A - F

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ENVIRONMENTAL STUDIES,
SOUTH TEXAS OUTER CONTINENTAL SHELF,
BIOLOGY AND CHEMISTRY

Submitted to:

The Bureau of Land Management
Washington, D. C. 20240

by

The University of Texas Marine Science Institute
Port Aransas Marine Laboratory
Port Aransas, Texas 78373

Acting for and on behalf
of a consortium program
conducted by:

Rice University
Texas A&M University
University of Texas

FINAL REPORT 1977
Contract AA550-CT7-11

VOLUME III
APPENDICES A - F

January 15, 1979

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APPENDIX A

CALIBRATED TEMPERATURE AND SALINITY VALUES FROM THE 1977 SAMPLING PROGRAM AND COMPUTED HYDROGRAPHIC VARIABLES

Explanation

Sigma-t = defined by (density - 1.000) x 1000.

SVA = the specific volume anomaly (the difference between the specific volume of the sample and that of a reference sample with a temperature of 0°C and 35 ppt) in cubic centimeters/gram.

DLTA D = the dynamic height anomaly, in cm^2/sec^2 x 10^{-4}, is the product of the specific volume anomaly and the pressure.

POT EN = the potential energy anomaly, in gm/cm sec^2.

SOUND VEL = the speed of sound, in m/sec.

BV FRQ = the Brunt-Vaisala frequency in cycles/hour.

```
           HYDROGRAPHIC CAST DATA    STATION 1 / TRANSECT I
                 1/21/77   745 CST      SAMPLE CODE BAAA

DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA    POT    SOUND   BV
                            T                D      EN      VEL   FRQ

  0.0      9.60   30.99   23.91   400.3   0.00   0.00   1483.8 136.3
  3.0     10.02   31.65   24.36   357.7    .11    .00   1486.2 107.0
  6.0     10.25   31.84   24.47   347.8    .22    .01   1487.4 165.5
  9.0     10.35   33.43   25.69   231.3    .31    .01   1489.8 152.1
 12.0     12.84   33.90   25.59   241.0    .38    .02   1499.2   0.0
 15.0     12.98   33.71   25.42   257.2    .45    .03   1499.4   0.0
```

```
           HYDROGRAPHIC CAST DATA    STATION 2 / TRANSECT I
                 1/21/77  1222 CST      SAMPLE CODE BABT

DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA    POT    SOUND   BV
                            T                D      EN      VEL   FRQ

  0.0     17.43   36.37   26.48   155.9   0.00   0.00   1516.5  25.0
  3.0     17.40   36.38   26.50   154.8    .05    .00   1516.4  12.6
  6.0     17.40   36.37   26.49   155.6    .09    .00   1516.5   0.0
  9.0     17.41   36.37   26.49   155.9    .14    .01   1516.6   0.0
 12.0     17.41   36.37   26.49   156.0    .19    .01   1516.6   2.8
 15.0     17.41   36.37   26.49   156.1    .23    .02   1516.7  12.6
 18.0     17.38   36.37   26.49   155.5    .28    .03   1516.6  12.6
 21.0     17.37   36.37   26.49   155.6    .33    .04   1516.7   2.8
 24.0     17.37   36.37   26.50   155.7    .37    .05   1516.7  16.3
 27.0     17.35   36.38   26.51   154.6    .42    .06   1516.7  23.8
 30.0     17.29   36.38   26.52   153.3    .47    .07   1516.6  20.2
 33.0     17.27   36.38   26.53   152.9    .51    .09   1516.6  19.1
 36.0     17.25   36.39   26.54   151.8    .56    .10   1516.6  16.3
 39.0     17.25   36.39   26.54   151.9    .61    .12   1516.6   2.8
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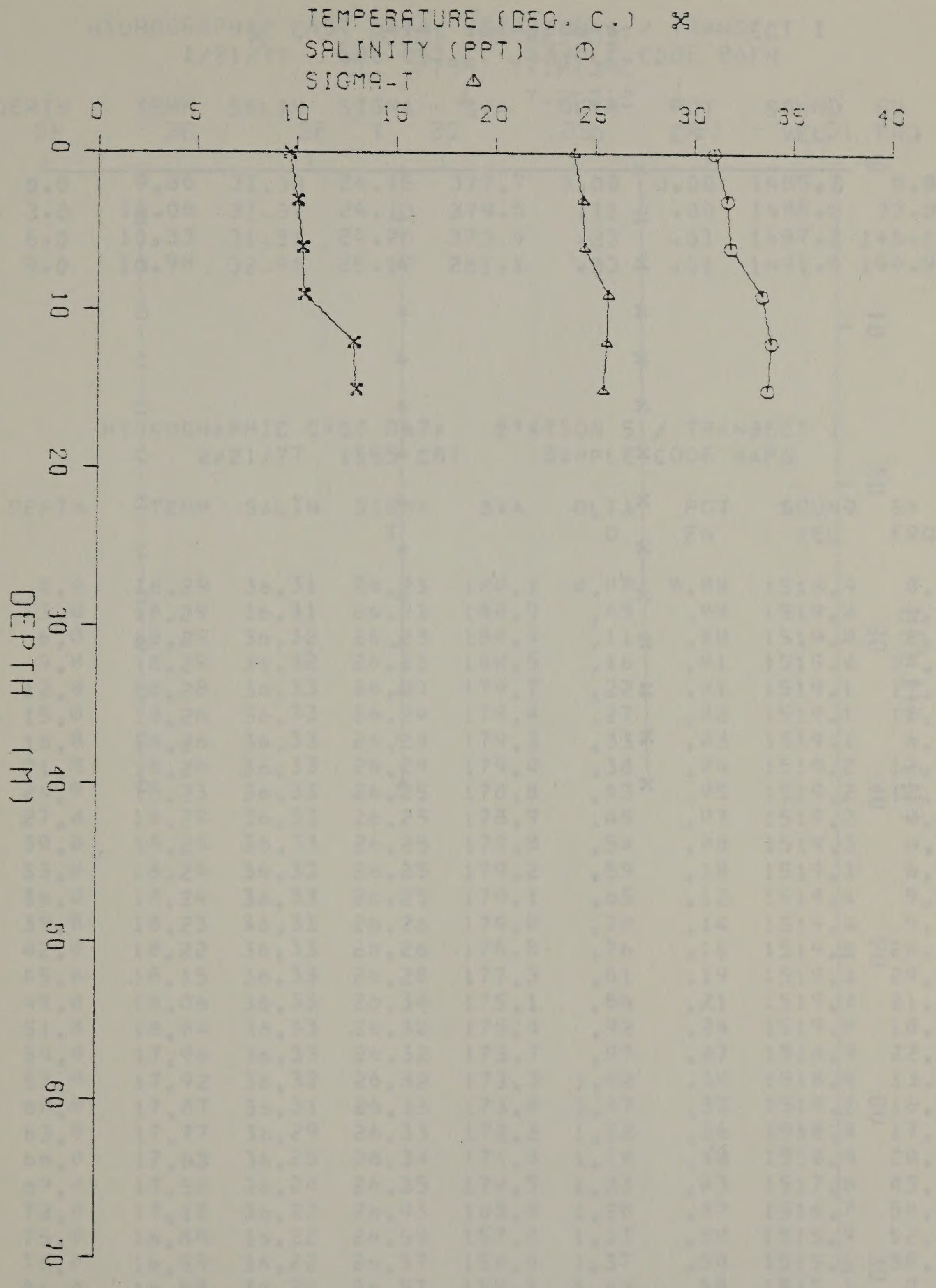
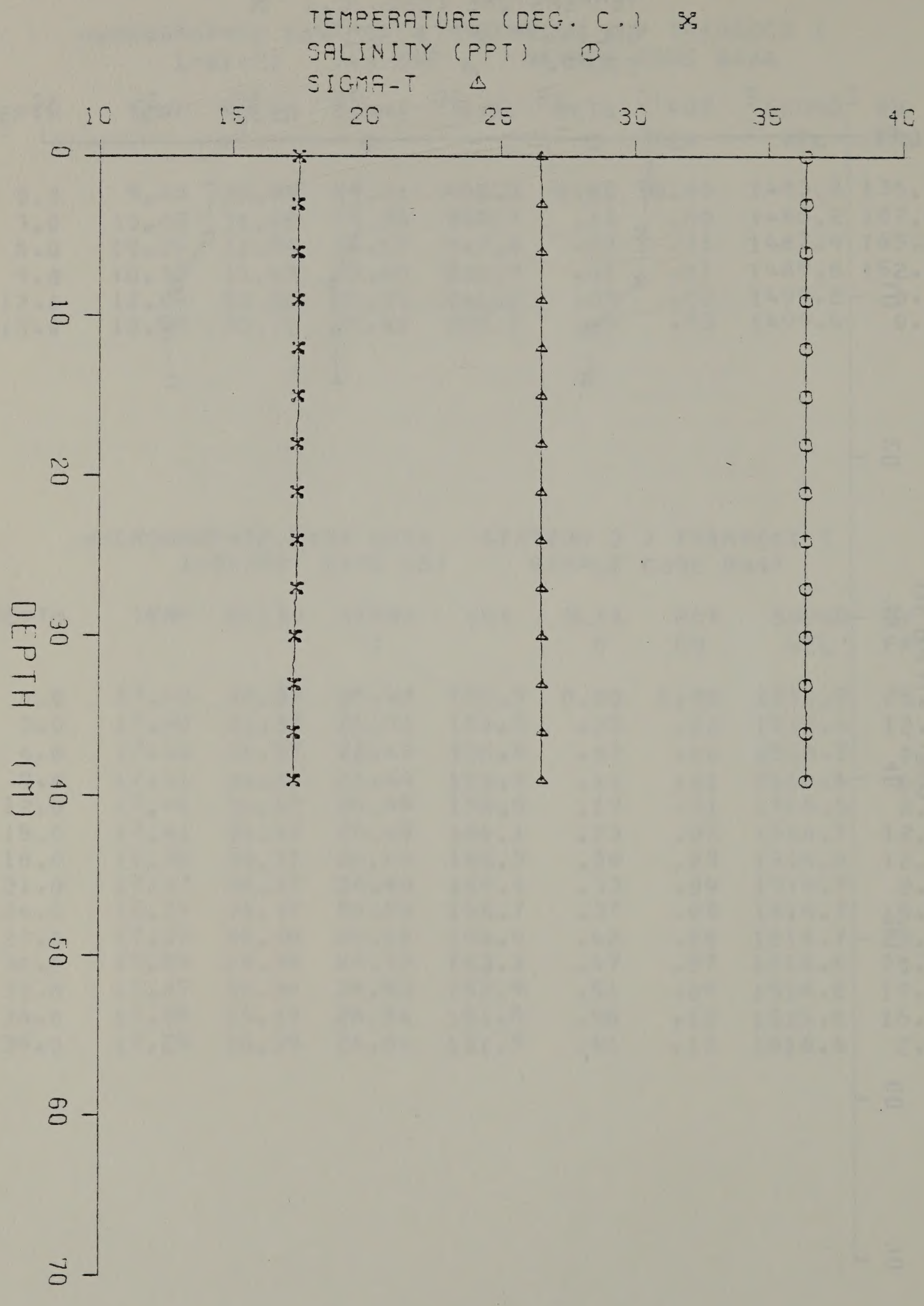


STATION 1 / TRANSECT I 1 /21/77 745 CST



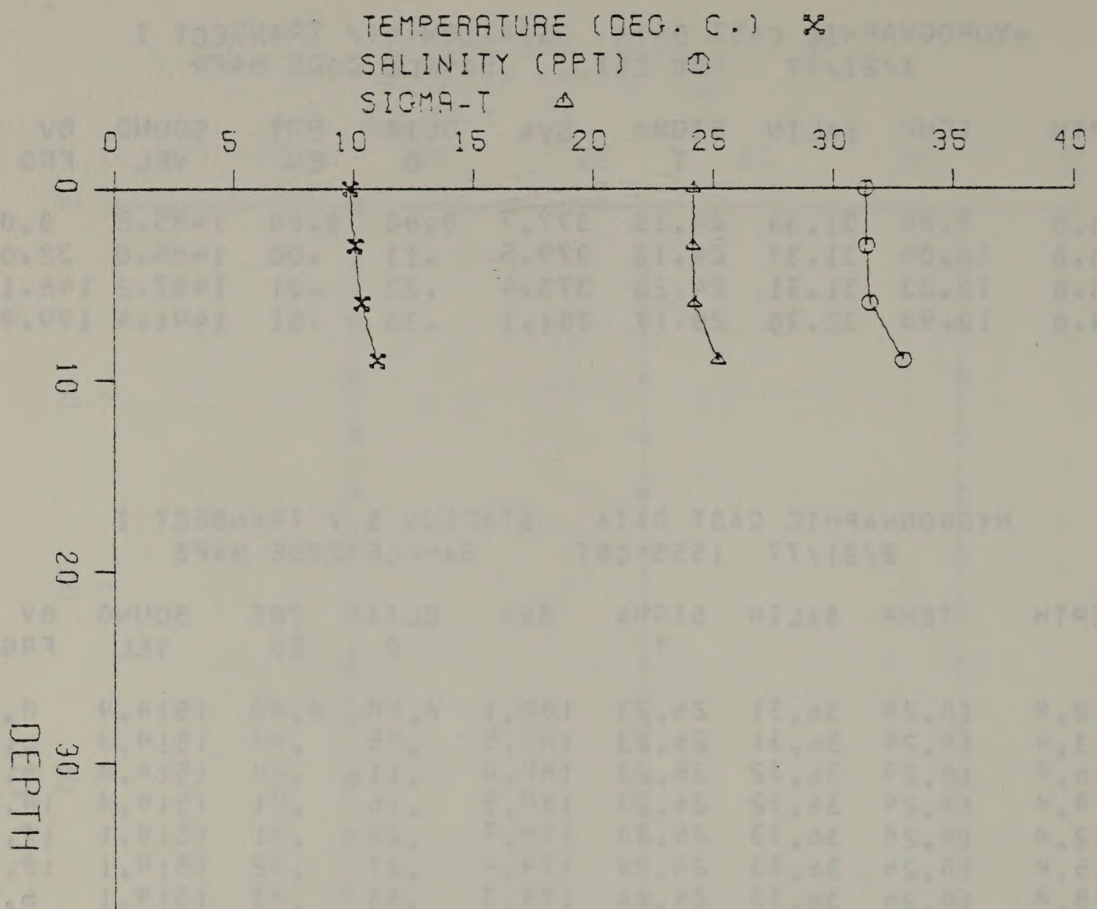
STATION 2 / TRANSECT I 1 /21/77 1222 CST

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT I
1/21/77 500 CST SAMPLE CODE BAFR

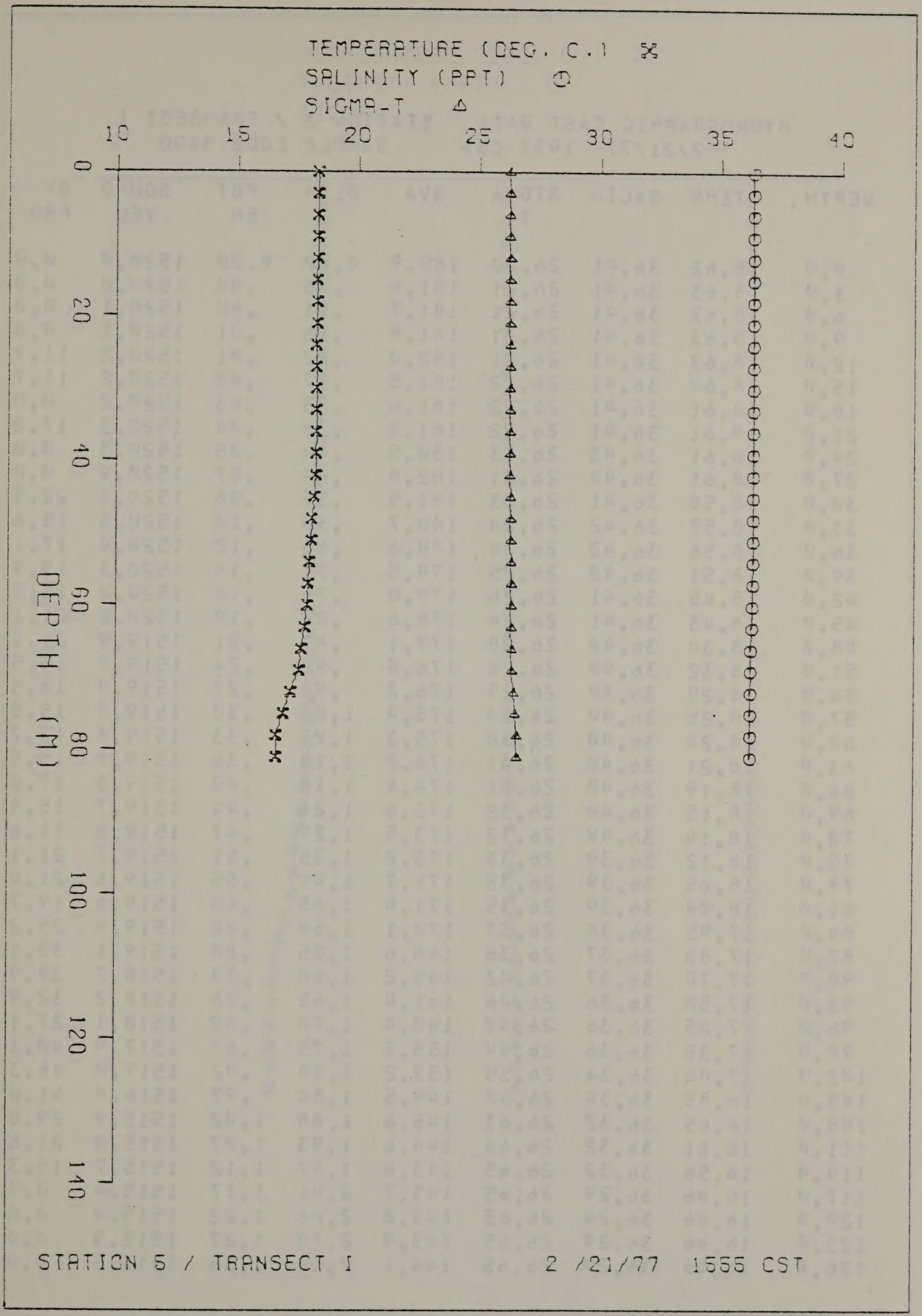
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	9.86	31.34	24.15	377.7	0.00	0.00	1485.2	0.0
3.0	10.06	31.37	24.13	379.5	.11	.00	1486.0	32.0
6.0	10.33	31.51	24.20	373.4	.23	.01	1487.2	146.1
9.0	10.98	32.90	25.17	281.1	.33	.01	1491.4	199.9

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT I
2/21/77 1555 CST SAMPLE CODE BAFS

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.29	36.31	26.23	180.1	0.00	0.00	1518.9	0.0
3.0	18.29	36.31	26.23	180.5	.05	.00	1519.0	6.5
6.0	18.29	36.32	26.23	180.4	.11	.00	1519.0	6.5
9.0	18.29	36.32	26.23	180.5	.16	.01	1519.0	14.1
12.0	18.28	36.33	26.24	179.7	.22	.01	1519.1	17.4
15.0	18.26	36.33	26.24	179.4	.27	.02	1519.1	12.1
18.0	18.26	36.33	26.24	179.3	.33	.03	1519.1	6.5
21.0	18.26	36.33	26.24	179.4	.38	.04	1519.2	12.0
24.0	18.23	36.33	26.25	178.8	.43	.05	1519.2	12.0
27.0	18.24	36.33	26.25	178.9	.49	.07	1519.2	0.0
30.0	18.24	36.33	26.25	179.0	.54	.08	1519.3	0.0
33.0	18.24	36.33	26.25	179.2	.59	.10	1519.3	6.5
36.0	18.24	36.33	26.25	179.1	.65	.12	1519.4	9.7
39.0	18.23	36.33	26.26	179.0	.70	.14	1519.4	9.7
42.0	18.22	36.33	26.26	178.8	.76	.16	1519.4	20.1
45.0	18.15	36.33	26.28	177.3	.81	.19	1519.3	29.4
48.0	18.06	36.33	26.30	175.1	.86	.21	1519.0	21.2
51.0	18.04	36.33	26.30	175.4	.92	.24	1519.0	18.6
54.0	17.96	36.33	26.32	173.7	.97	.27	1518.9	22.3
57.0	17.92	36.32	26.32	173.3	1.02	.30	1518.8	13.6
60.0	17.87	36.31	26.33	173.0	1.07	.33	1518.7	16.8
63.0	17.77	36.29	26.33	172.2	1.12	.36	1518.4	17.7
66.0	17.63	36.25	26.34	171.8	1.18	.40	1518.0	20.4
69.0	17.54	36.24	26.35	170.5	1.23	.43	1517.8	43.9
72.0	17.18	36.23	26.43	163.0	1.28	.47	1516.7	54.4
75.0	16.88	36.22	26.50	157.0	1.33	.50	1515.9	52.7
78.0	16.59	36.22	26.57	150.4	1.37	.54	1515.1	38.2
81.0	16.59	36.22	26.57	150.5	1.42	.58	1515.1	0.0



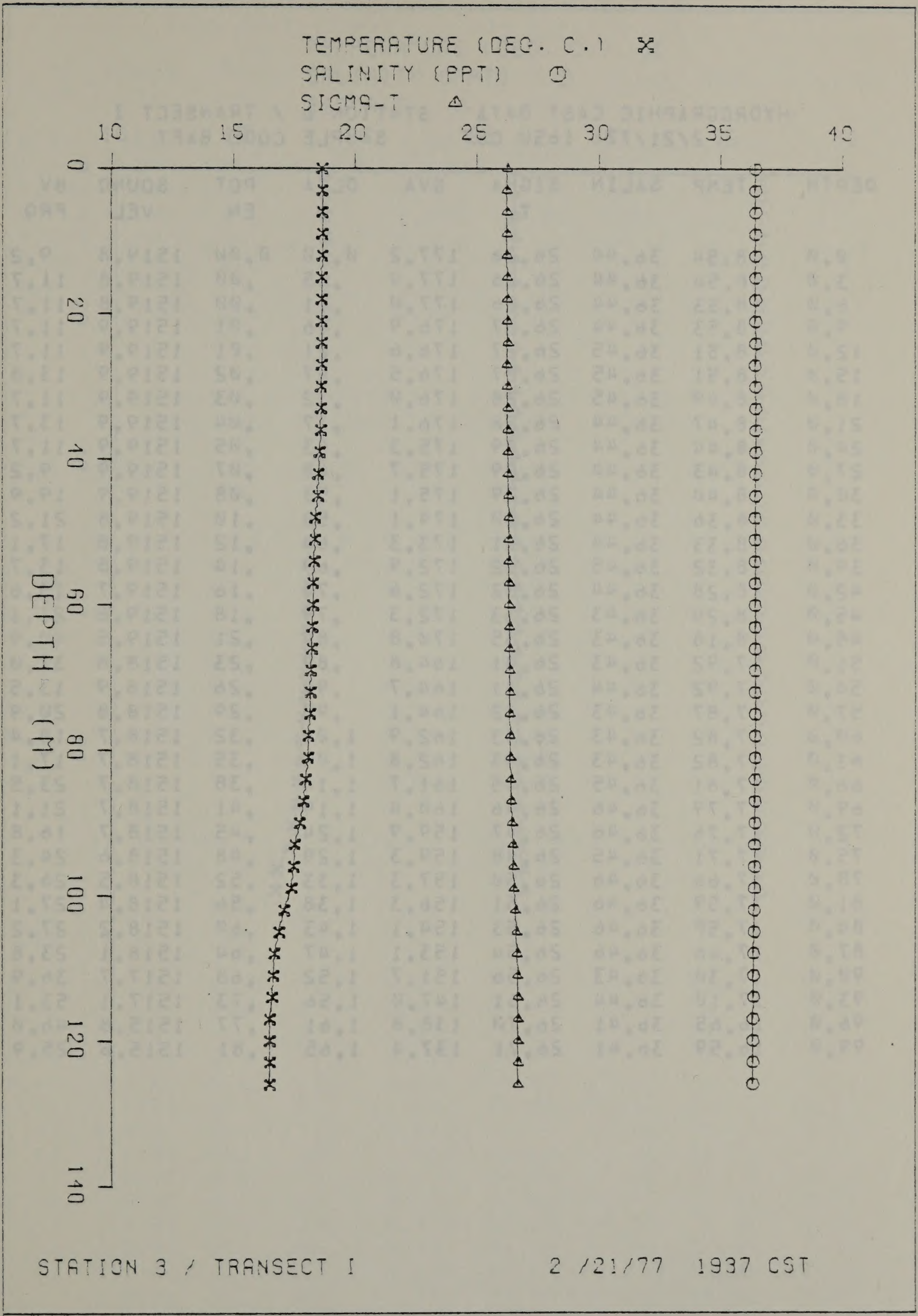
STATION 4 / TRANSECT I 1 /21/77 500 CST



STATION 5 / TRANSECT I 2 /21/77 1555 CST

HYDROGRAPHIC CAST DATA   STATION 3 / TRANSECT I
2/21/77 1937 CST   SAMPLE CODE BADO

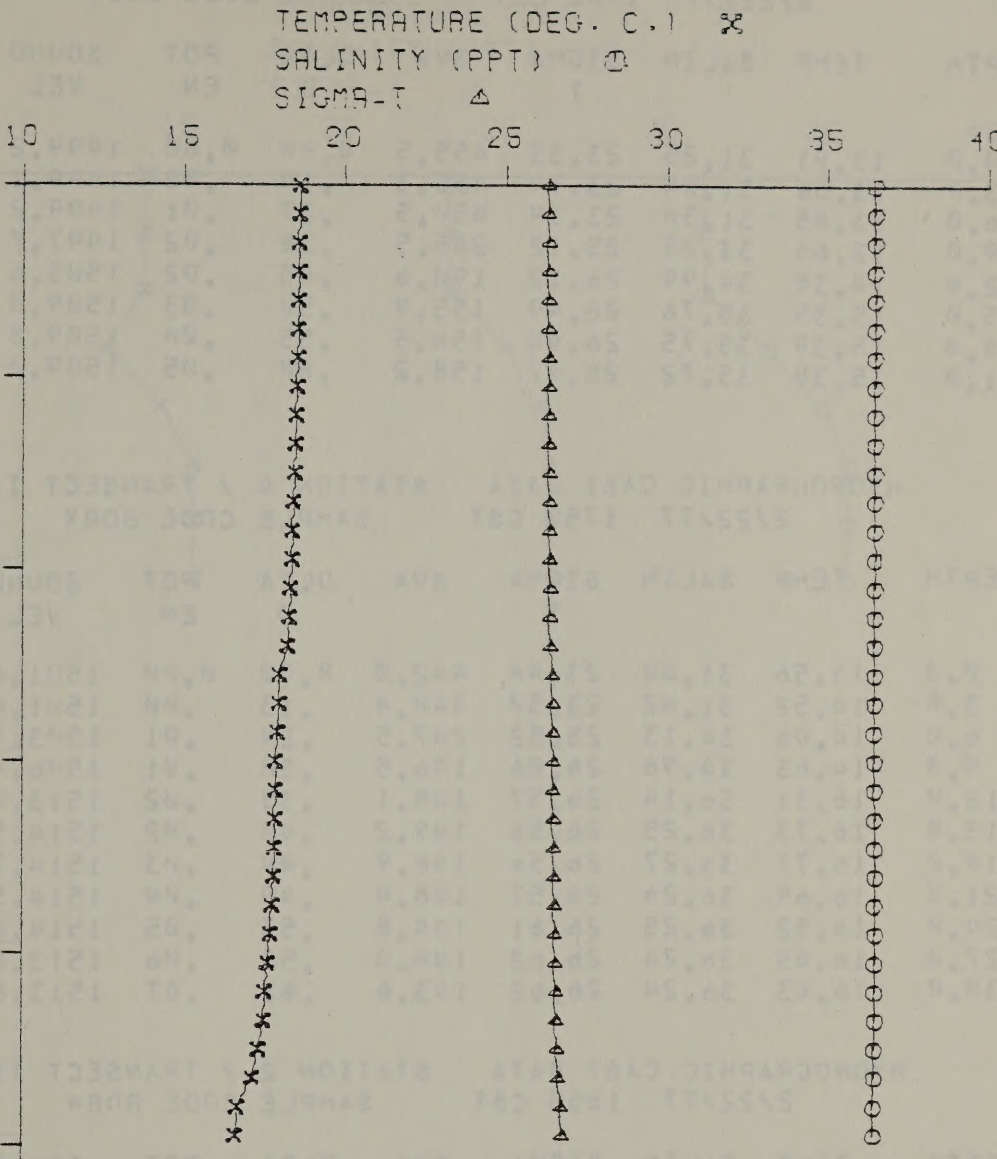
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.62	36.41	26.22	180.9	0.00	0.00	1520.0	0.0
3.0	18.63	36.41	26.21	181.6	.05	.00	1520.0	0.0
6.0	18.63	36.41	26.21	181.7	.11	.00	1520.1	0.0
9.0	18.63	36.41	26.21	181.9	.16	.01	1520.1	0.0
12.0	18.63	36.41	26.21	182.0	.22	.01	1520.2	11.7
15.0	18.60	36.41	26.22	181.5	.27	.02	1520.2	11.7
18.0	18.61	36.41	26.22	181.6	.33	.03	1520.2	0.0
21.0	18.61	36.41	26.22	181.8	.38	.04	1520.3	17.2
24.0	18.61	36.43	26.23	180.5	.44	.05	1520.3	0.0
27.0	18.61	36.40	26.21	182.8	.49	.07	1520.4	0.0
30.0	18.58	36.41	26.23	181.5	.55	.08	1520.3	22.5
33.0	18.57	36.42	26.24	180.7	.60	.10	1520.4	15.6
36.0	18.56	36.42	26.24	180.6	.66	.12	1520.4	17.1
39.0	18.51	36.42	26.25	179.5	.71	.14	1520.3	19.9
42.0	18.45	36.41	26.26	179.0	.76	.16	1520.2	15.5
45.0	18.43	36.41	26.26	178.6	.82	.19	1520.2	21.1
48.0	18.34	36.40	26.28	177.1	.87	.21	1519.9	21.1
51.0	18.32	36.40	26.28	176.8	.92	.24	1519.9	15.5
54.0	18.29	36.40	26.29	176.2	.98	.27	1519.9	18.5
57.0	18.25	36.40	26.30	175.4	1.03	.30	1519.8	15.5
60.0	18.24	36.40	26.30	175.3	1.08	.33	1519.8	13.7
63.0	18.21	36.40	26.31	174.8	1.14	.36	1519.8	15.5
66.0	18.19	36.40	26.31	174.4	1.19	.40	1519.8	17.0
69.0	18.15	36.40	26.32	173.6	1.24	.44	1519.7	15.4
72.0	18.14	36.40	26.32	173.5	1.29	.47	1519.8	11.6
75.0	18.12	36.39	26.33	173.2	1.35	.51	1519.7	21.1
78.0	18.05	36.39	26.35	171.7	1.40	.55	1519.6	21.0
81.0	18.04	36.39	26.35	171.4	1.45	.60	1519.6	19.7
84.0	17.95	36.38	26.37	170.1	1.50	.64	1519.4	25.2
87.0	17.85	36.37	26.38	168.6	1.55	.68	1519.1	33.1
90.0	17.70	36.37	26.42	165.2	1.60	.73	1518.7	39.9
93.0	17.50	36.36	26.46	161.4	1.65	.78	1518.2	32.9
96.0	17.45	36.36	26.47	160.4	1.70	.82	1518.1	27.1
99.0	17.35	36.36	26.49	158.3	1.75	.87	1517.9	40.1
102.0	17.06	36.34	26.55	153.2	1.79	.92	1517.0	46.3
105.0	16.85	36.34	26.60	148.5	1.84	.97	1516.4	41.0
108.0	16.65	36.32	26.63	145.6	1.88	1.02	1515.9	29.8
111.0	16.61	36.32	26.64	144.6	1.93	1.07	1515.8	21.6
114.0	16.56	36.32	26.65	143.6	1.97	1.12	1515.7	15.3
117.0	16.46	36.29	26.65	143.7	2.01	1.17	1515.4	0.0
120.0	16.46	36.29	26.65	143.8	2.06	1.22	1515.4	0.0
123.0	16.46	36.29	26.65	143.9	2.10	1.27	1515.5	0.0
126.0	16.46	36.29	26.65	144.1	2.14	1.33	1515.5	0.0



STATION 3 / TRANSECT I 2 /21/77 1937 CST

HYDROGRAPHIC CAST DATA   STATION 6 / TRANSECT I
2/21/77 1650 CST   SAMPLE CODE BAFT

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.54	36.44	26.26	177.2	0.00	0.00	1519.8	9.2
3.0	18.54	36.44	26.26	177.4	.05	.00	1519.8	11.7
6.0	18.53	36.44	26.26	177.0	.11	.00	1519.8	11.7
9.0	18.53	36.44	26.27	176.9	.16	.01	1519.9	11.7
12.0	18.51	36.45	26.27	176.6	.21	.01	1519.9	11.7
15.0	18.51	36.45	26.27	176.5	.27	.02	1519.9	13.8
18.0	18.49	36.45	26.28	176.0	.32	.03	1519.9	11.7
21.0	18.47	36.44	26.28	176.1	.37	.04	1519.9	13.7
24.0	18.44	36.44	26.29	175.3	.43	.05	1519.9	11.7
27.0	18.43	36.44	26.29	175.7	.48	.07	1519.9	9.2
30.0	18.40	36.44	26.29	175.1	.53	.08	1519.9	19.9
33.0	18.36	36.44	26.30	174.1	.58	.10	1519.8	21.2
36.0	18.33	36.44	26.31	173.3	.64	.12	1519.8	17.1
39.0	18.32	36.45	26.32	172.9	.69	.14	1519.8	13.7
42.0	18.28	36.44	26.32	172.6	.74	.16	1519.7	13.6
45.0	18.24	36.43	26.33	172.3	.79	.18	1519.6	21.1
48.0	18.18	36.43	26.35	170.8	.84	.21	1519.5	40.9
51.0	17.92	36.43	26.41	164.8	.89	.23	1518.8	37.0
54.0	17.92	36.44	26.41	164.7	.94	.26	1518.9	13.5
57.0	17.87	36.43	26.42	164.1	.99	.29	1518.8	20.9
60.0	17.82	36.43	26.43	162.9	1.04	.32	1518.7	18.4
63.0	17.82	36.43	26.43	162.8	1.09	.35	1518.7	17.1
66.0	17.81	36.45	26.45	161.7	1.14	.38	1518.7	23.5
69.0	17.79	36.46	26.46	160.4	1.19	.41	1518.7	21.1
72.0	17.76	36.46	26.47	159.9	1.24	.45	1518.7	16.8
75.0	17.71	36.45	26.48	159.3	1.29	.48	1518.6	24.3
78.0	17.66	36.46	26.50	157.3	1.33	.52	1518.5	26.3
81.0	17.59	36.46	26.51	156.3	1.38	.56	1518.4	27.1
84.0	17.50	36.46	26.53	154.1	1.43	.60	1518.2	27.2
87.0	17.46	36.46	26.54	153.1	1.47	.64	1518.1	23.8
90.0	17.30	36.43	26.56	151.7	1.52	.68	1517.7	36.9
93.0	17.10	36.44	26.61	147.0	1.56	.73	1517.1	53.1
96.0	16.65	36.41	26.70	138.8	1.61	.77	1515.8	46.0
99.0	16.59	36.41	26.71	137.4	1.65	.81	1515.6	25.9



STATION 6 / TRANSECT I 2 /21/77 1650 CST

```
        HYDROGRAPHIC CAST DATA    STATION 1 / TRANSECT II
              2/22/77  1900 CST      SAMPLE CODE 8DBY

DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND   BV
                           T                D      EN      VEL   FRQ

  0.0    13.91   31.25   23.33   455.5   0.00    0.00   1499.2   15.2
  3.0    13.86   31.24   23.34   455.3    .14     .00   1499.1   34.3
  6.0    13.85   31.30   23.39   450.5    .27     .01   1499.2  191.8
  9.0    12.68   33.25   25.12   285.5    .38     .02   1497.7  237.2
 12.0    14.38   34.99   26.12   190.6    .45     .02   1505.6  167.6
 15.0    15.39   35.76   26.49   155.9    .50     .03   1509.8   86.3
 18.0    15.39   35.75   26.48   156.5    .55     .04   1509.8    0.0
 21.0    15.38   35.72   26.47   158.2    .60     .05   1509.8    0.0
```

```
        HYDROGRAPHIC CAST DATA    STATION 4 / TRANSECT II
              2/22/77  1750 CST      SAMPLE CODE 8DBX

DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND   BV
                           T                D      EN      VEL   FRQ

  0.0    14.56   31.60   23.48   442.0   0.00    0.00   1501.8   28.5
  3.0    14.52   31.62   23.50   440.4    .13     .00   1501.8  205.5
  6.0    14.06   34.13   25.52   247.5    .24     .01   1503.4  229.8
  9.0    14.63   34.98   26.06   196.5    .30     .01   1506.4  147.0
 12.0    16.31   36.14   26.57   148.1    .35     .02   1513.0  101.5
 15.0    16.73   36.25   26.56   149.2    .40     .02   1514.5    0.0
 18.0    16.77   36.27   26.56   148.9    .44     .03   1514.7   15.1
 21.0    16.69   36.26   26.57   148.4    .49     .04   1514.5   30.5
 24.0    16.52   36.25   26.61   144.8    .53     .05   1514.0   31.3
 27.0    16.43   36.24   26.62   144.0    .58     .06   1513.8   17.6
 30.0    16.43   36.24   26.62   143.6    .62     .07   1513.8   15.4
```

```
        HYDROGRAPHIC CAST DATA    STATION 2 / TRANSECT II
              2/22/77  1655 CST      SAMPLE CODE 8DBW

DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND   BV
                           T                D      EN      VEL   FRQ

  0.0    16.60   35.06   25.68   232.4   0.00    0.00   1512.4    7.2
  3.0    16.60   35.06   25.68   232.6    .07     .00   1512.5   19.2
  6.0    16.60   35.08   25.69   231.2    .14     .00   1512.5   59.4
  9.0    16.59   35.28   25.85   216.6    .21     .01   1512.8  103.9
 12.0    17.39   36.01   26.22   181.6    .27     .02   1516.1  104.6
 15.0    17.39   36.22   26.38   166.3    .32     .02   1516.4   59.3
 18.0    17.39   36.24   26.39   165.5    .37     .03   1516.5   39.9
 21.0    17.23   36.28   26.46   159.1    .42     .04   1516.1   55.0
 24.0    17.10   36.34   26.54   151.8    .47     .05   1515.9   40.5
 27.0    17.10   36.34   26.54   151.8    .51     .06   1515.9   37.2
 30.0    16.83   36.34   26.60   145.6    .56     .08   1515.1   47.2
 33.0    16.32   36.24   26.65   141.6    .60     .09   1513.6   31.6
 36.0    16.30   36.24   26.65   141.2    .64     .11   1513.5   12.1
 39.0    16.30   36.24   26.65   141.1    .68     .12   1513.6    7.2
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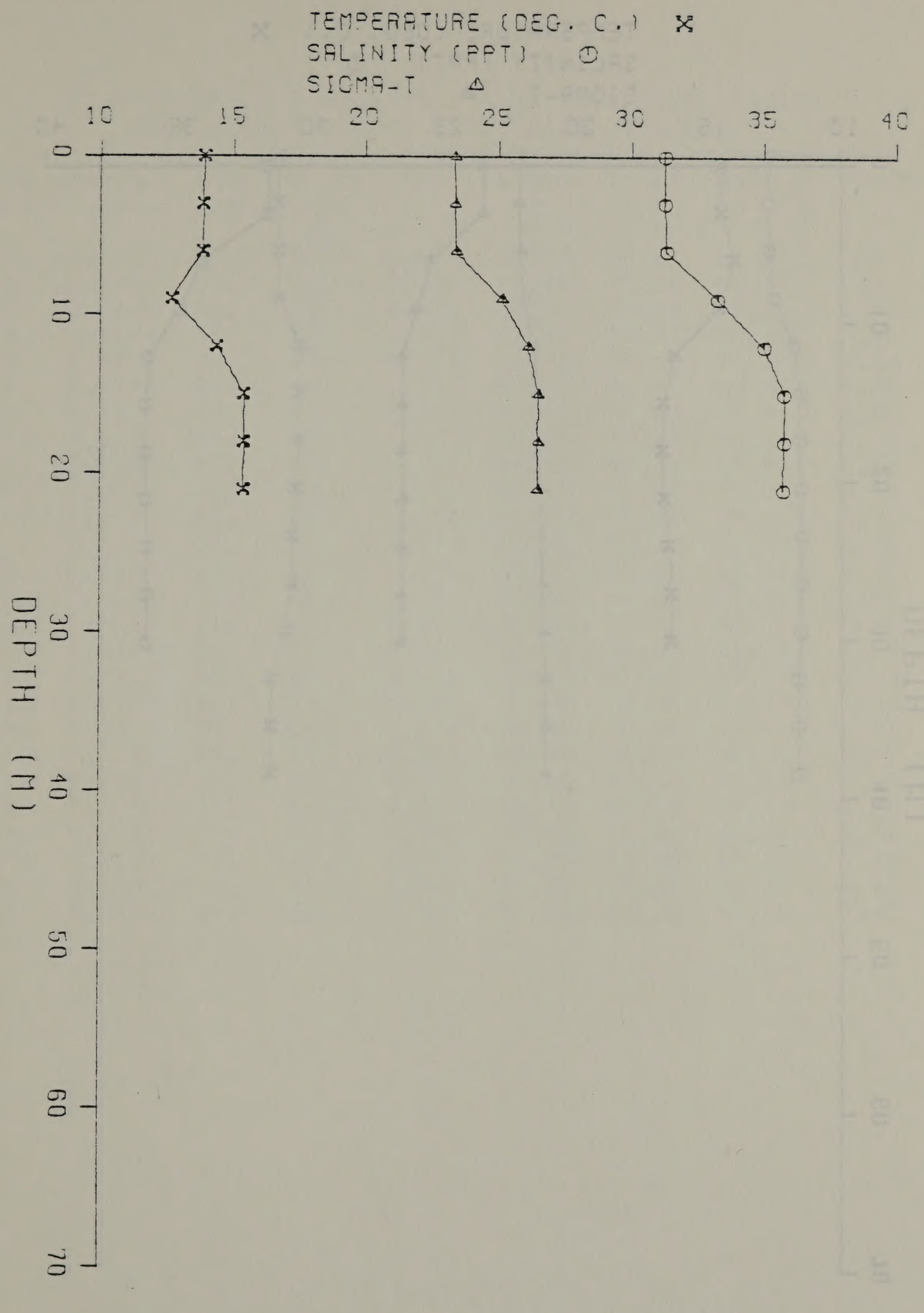
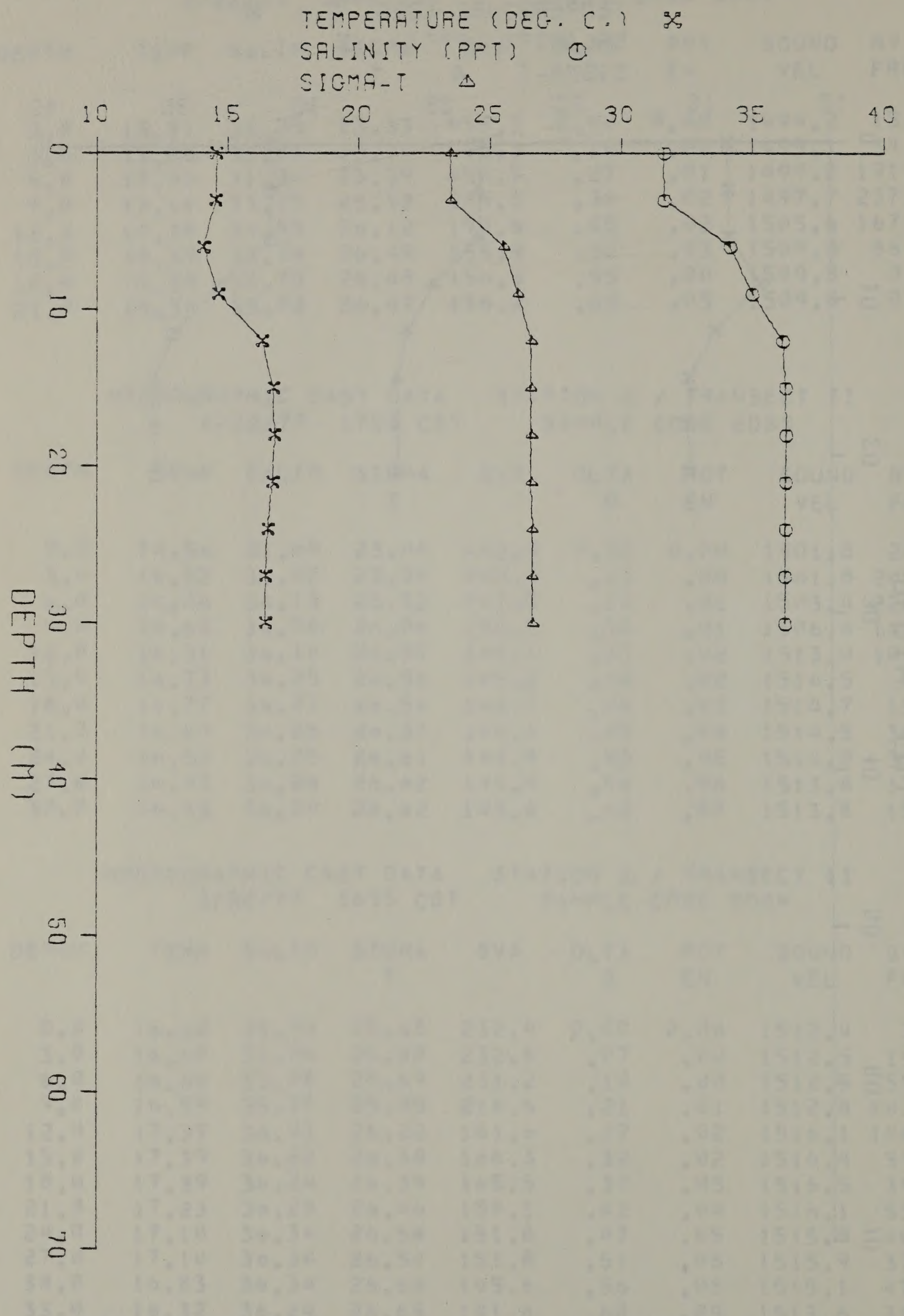
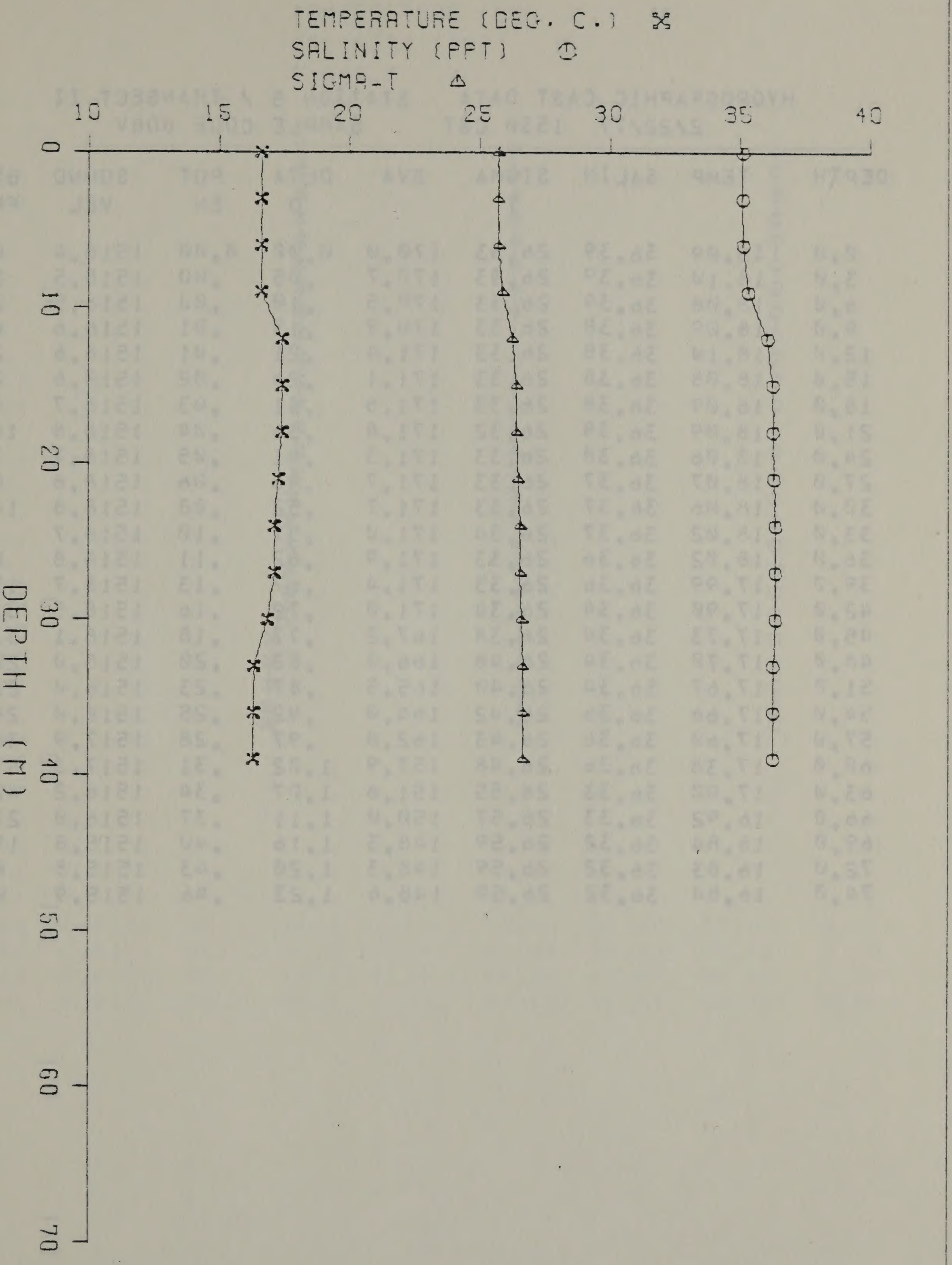


STATION 1 / TRANSECT II 2 /22/77 1900 CST



STATION 4 / TRANSECT II 2 /22/77 1750 CST



STATION 2 / TRANSECT II 2 /22/77 1655 CST

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          HYDROGRAPHIC CAST DATA   STATION 5 / TRANSECT II
                2/22/77  1530 CST     SAMPLE CODE 8DBV

DEPTH     TEMP   SALIN   SIGMA    SVA    DLTA    POT    SOUND   BV
                           T               D     EN      VEL    FRQ

  0.0    18.09   36.39   26.33   170.0   0.00   0.00   1518.4   0.0
  3.0    18.10   36.39   26.33   170.7    .05    .00   1518.5   2.0
  6.0    18.08   36.39   26.33   170.5    .10    .00   1518.5   2.0
  9.0    18.09   36.38   26.33   170.9    .15    .01   1518.6   0.0
 12.0    18.10   36.38   26.33   171.4    .21    .01   1518.6   2.0
 15.0    18.08   36.38   26.33   171.1    .26    .02   1518.6   2.0
 18.0    18.09   36.38   26.33   171.6    .31    .03   1518.7   0.0
 21.0    18.09   36.38   26.32   171.8    .36    .04   1518.8  10.3
 24.0    18.06   36.38   26.33   171.3    .41    .05   1518.7   7.4
 27.0    18.07   36.37   26.33   171.7    .46    .06   1518.8   0.0
 30.0    18.06   36.37   26.33   171.7    .52    .08   1518.8  14.5
 33.0    18.02   36.37   26.34   171.0    .57    .10   1518.7    .3
 36.0    18.02   36.36   26.33   171.9    .62    .11   1518.8   0.0
 39.0    17.99   36.36   26.33   171.4    .67    .13   1518.7  15.8
 42.0    17.90   36.34   26.34   171.0    .72    .16   1518.5  31.0
 45.0    17.73   36.34   26.38   167.2    .77    .18   1518.1  33.6
 48.0    17.70   36.34   26.40   166.0    .82    .20   1518.0  20.3
 51.0    17.67   36.34   26.40   165.5    .87    .23   1518.0  21.7
 54.0    17.66   36.36   26.42   164.0    .92    .25   1518.0  24.9
 57.0    17.60   36.36   26.43   162.8    .97    .28   1517.9  36.9
 60.0    17.38   36.36   26.48   157.9   1.02    .31   1517.3  49.7
 63.0    17.00   36.33   26.55   151.6   1.07    .34   1516.2  42.0
 66.0    16.92   36.33   26.57   150.0   1.11    .37   1516.0  27.2
 69.0    16.84   36.32   26.59   148.3   1.16    .40   1515.8  19.9
 72.0    16.83   36.32   26.59   148.3   1.20    .43   1515.8   0.0
 74.0    16.84   36.32   26.59   148.6   1.23    .46   1515.9   0.0
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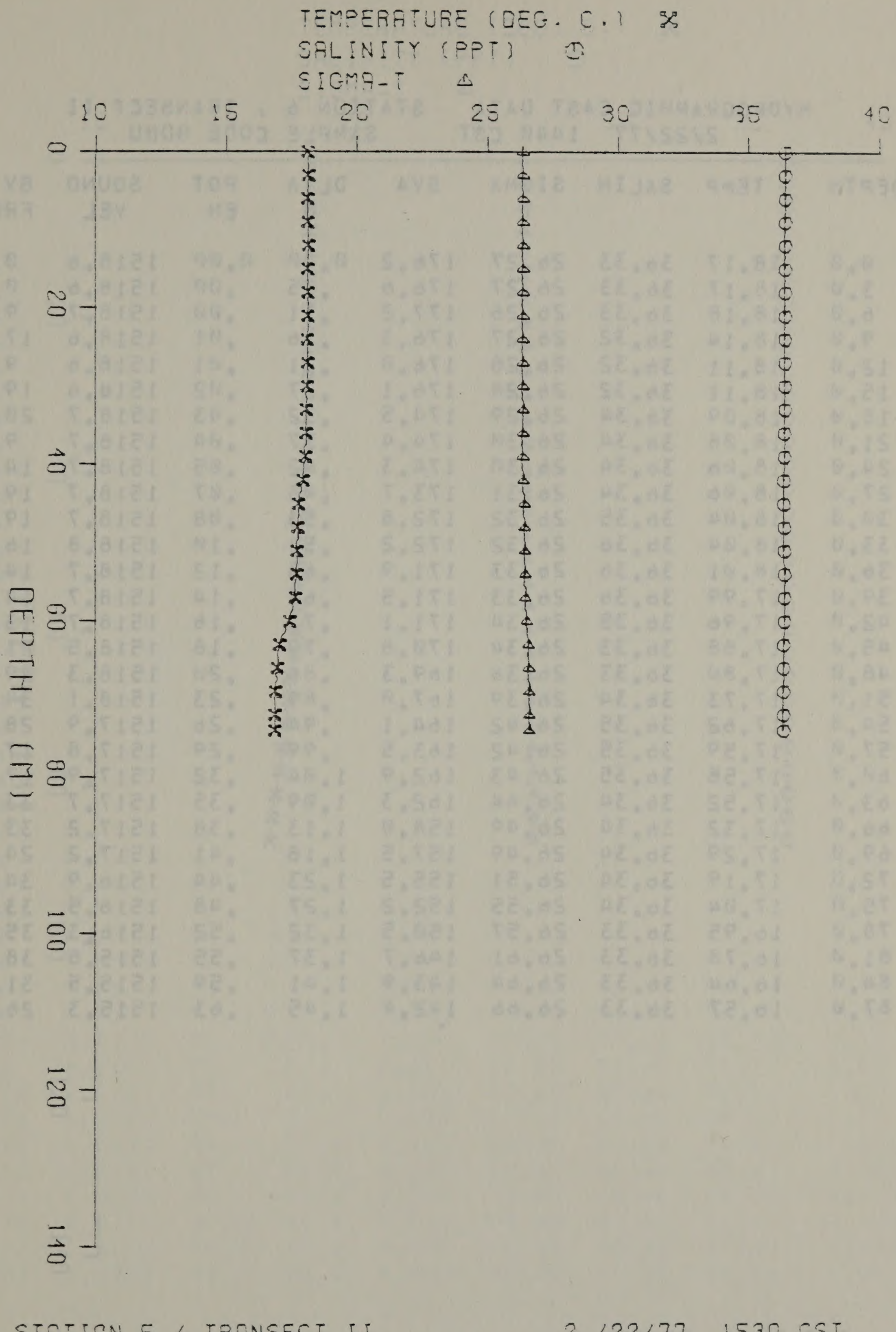
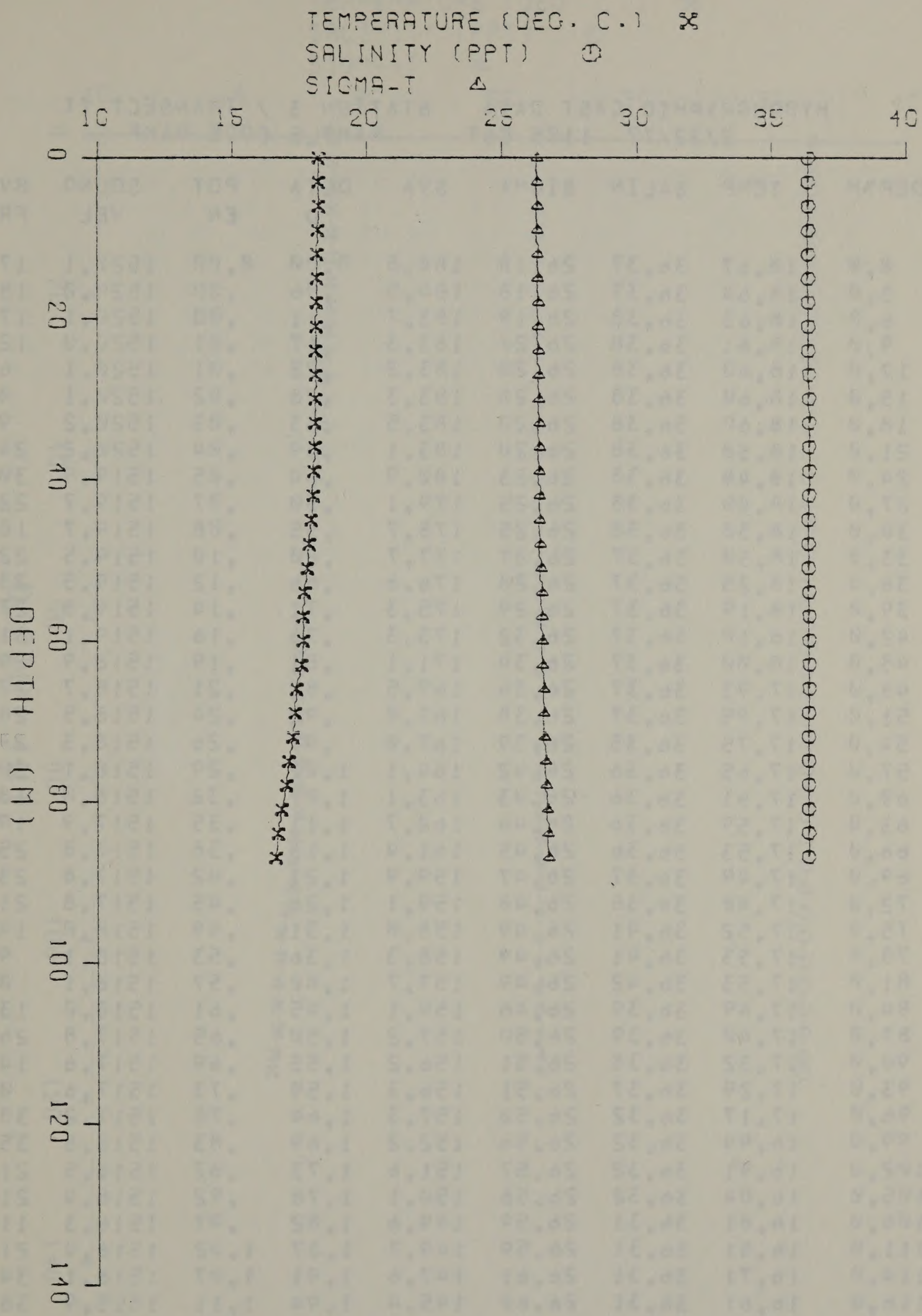


STATION 5 / TRANSECT II 2 /22/77 1530 CST

HYDROGRAPHIC CAST DATA STATION 6 , TRANSECT II
2/22/77 1440 CST SAMPLE CODE BDBU

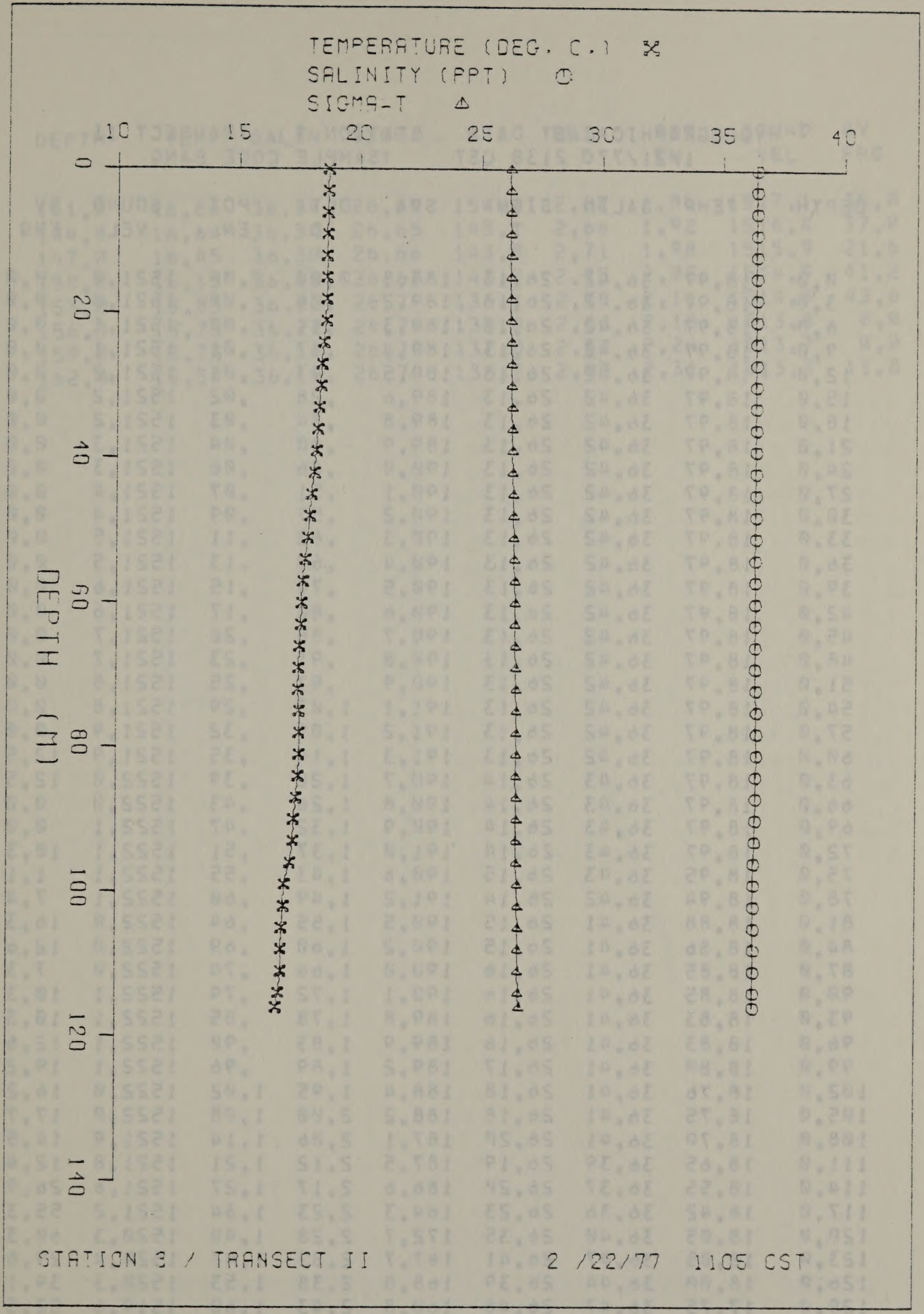
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.17	36.33	26.27	176.2	0.00	0.00	1518.6	0.0
3.0	18.17	36.33	26.27	176.6	.05	.00	1518.6	0.0
6.0	18.18	36.33	26.26	177.2	.11	.00	1518.7	9.9
9.0	18.14	36.32	26.27	176.3	.16	.01	1518.6	17.4
12.0	18.11	36.32	26.28	176.0	.21	.01	1518.6	9.9
15.0	18.11	36.32	26.28	176.1	.27	.02	1518.6	19.0
18.0	18.09	36.34	26.29	174.5	.32	.03	1518.7	20.3
21.0	18.08	36.34	26.30	174.4	.37	.04	1518.7	9.9
24.0	18.06	36.34	26.30	174.3	.42	.05	1518.7	14.3
27.0	18.06	36.34	26.31	173.7	.48	.07	1518.7	19.0
30.0	18.04	36.35	26.32	172.8	.53	.08	1518.7	19.0
33.0	18.04	36.36	26.32	172.2	.58	.10	1518.8	16.0
36.0	18.01	36.36	26.33	171.9	.63	.12	1518.7	14.1
39.0	17.99	36.36	26.33	171.5	.68	.14	1518.7	14.1
42.0	17.96	36.35	26.34	171.1	.73	.16	1518.7	13.8
45.0	17.88	36.33	26.34	170.8	.79	.18	1518.5	21.1
48.0	17.80	36.33	26.36	169.3	.84	.20	1518.3	29.4
51.0	17.73	36.34	26.39	167.0	.89	.23	1518.1	34.2
54.0	17.62	36.35	26.42	164.1	.94	.26	1517.9	28.4
57.0	17.59	36.35	26.42	163.5	.99	.29	1517.8	17.4
60.0	17.58	36.35	26.43	162.9	1.04	.32	1517.9	17.2
63.0	17.52	36.34	26.44	162.3	1.09	.35	1517.7	33.0
66.0	17.32	36.34	26.49	158.0	1.13	.38	1517.2	33.1
69.0	17.29	36.34	26.49	157.5	1.18	.41	1517.2	24.3
72.0	17.19	36.34	26.51	155.5	1.23	.44	1516.9	34.4
75.0	17.04	36.34	26.55	152.2	1.27	.48	1516.5	33.6
78.0	16.95	36.33	26.57	150.5	1.32	.52	1516.3	35.0
81.0	16.78	36.33	26.61	146.7	1.37	.55	1515.8	38.2
84.0	16.64	36.33	26.64	143.9	1.41	.59	1515.5	31.1
87.0	16.57	36.33	26.66	142.4	1.45	.63	1515.3	26.0



STATION 6 , TRANSECT II 2 /22/77 1440 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II
2/22/77 1105 CST SAMPLE CODE BAKF

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.67	36.37	26.18	184.8	0.00	0.00	1520.1	17.4
3.0	18.64	36.37	26.18	184.5	.06	.00	1520.0	18.8
6.0	18.63	36.38	26.19	183.7	.11	.00	1520.1	17.4
9.0	18.61	36.38	26.20	183.3	.17	.01	1520.0	12.0
12.0	18.60	36.38	26.20	183.2	.22	.01	1520.1	6.4
15.0	18.60	36.38	26.20	183.3	.28	.02	1520.1	0.0
18.0	18.60	36.38	26.20	183.5	.33	.03	1520.2	9.6
21.0	18.58	36.38	26.20	183.1	.39	.04	1520.2	24.8
24.0	18.48	36.38	26.23	180.9	.44	.05	1519.9	30.4
27.0	18.40	36.38	26.25	179.1	.50	.07	1519.7	22.5
30.0	18.38	36.38	26.25	178.7	.55	.08	1519.7	18.7
33.0	18.30	36.37	26.27	177.7	.60	.10	1519.5	22.4
36.0	18.25	36.37	26.28	176.6	.66	.12	1519.5	23.6
39.0	18.19	36.37	26.29	175.3	.71	.14	1519.3	27.6
42.0	18.10	36.37	26.32	173.3	.76	.16	1519.1	31.0
45.0	18.00	36.37	26.34	171.1	.81	.19	1518.9	29.3
48.0	17.93	36.37	26.36	169.5	.87	.21	1518.7	27.5
51.0	17.85	36.37	26.38	167.8	.92	.24	1518.5	24.3
54.0	17.75	36.35	26.39	167.0	.97	.26	1518.3	29.1
57.0	17.65	36.36	26.42	164.1	1.02	.29	1518.1	30.1
60.0	17.61	36.36	26.43	163.1	1.07	.32	1518.0	18.5
63.0	17.59	36.36	26.44	162.7	1.11	.35	1517.9	19.8
66.0	17.53	36.36	26.45	161.4	1.16	.38	1517.8	25.5
69.0	17.49	36.37	26.47	159.9	1.21	.42	1517.8	23.6
72.0	17.48	36.38	26.48	159.1	1.26	.45	1517.8	21.6
75.0	17.52	36.41	26.49	158.0	1.31	.49	1518.0	14.5
78.0	17.53	36.41	26.49	158.3	1.36	.53	1518.1	9.8
81.0	17.53	36.42	26.49	157.7	1.40	.57	1518.1	0.0
84.0	17.49	36.39	26.48	159.1	1.45	.61	1518.0	13.0
87.0	17.40	36.39	26.50	157.2	1.50	.65	1517.8	26.1
90.0	17.32	36.38	26.51	156.2	1.55	.69	1517.6	14.9
93.0	17.29	36.37	26.51	156.3	1.59	.73	1517.6	0.0
96.0	17.17	36.32	26.50	157.3	1.64	.78	1517.2	30.6
99.0	16.94	36.32	26.56	152.2	1.69	.83	1516.6	35.7
102.0	16.91	36.32	26.57	151.6	1.73	.87	1516.5	21.9
105.0	16.84	36.32	26.58	150.1	1.78	.92	1516.4	21.9
108.0	16.81	36.31	26.59	149.6	1.82	.97	1516.3	11.6
111.0	16.81	36.31	26.59	149.7	1.87	1.02	1516.4	21.9
114.0	16.71	36.31	26.61	147.6	1.91	1.07	1516.1	34.8
116.0	16.61	36.31	26.64	145.4	1.94	1.11	1515.9	38.1

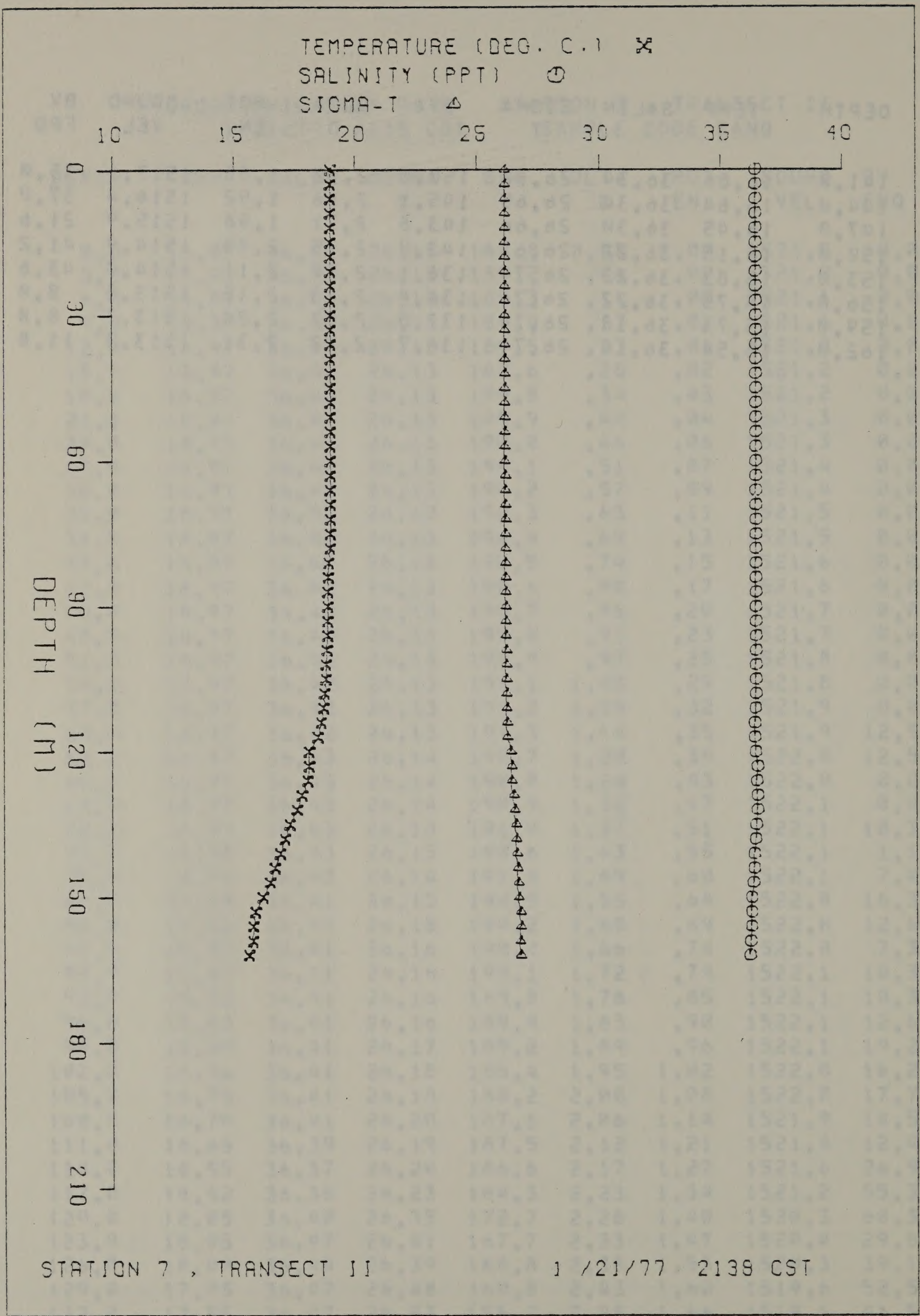


STATION 3 / TRANSECT II 2 /22/77 1105 CST

HYDROGRAPHIC CAST DATA   STATION 7 , TRANSECT II
1/21/77 2138 CST   SAMPLE CODE BANQ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0,0	18,97	36,42	26,13	188,8	0,00	0,00	1521,0	0,0
3,0	18,97	36,42	26,13	189,2	,06	,00	1521,0	0,0
6,0	18,97	36,42	26,13	189,3	,11	,00	1521,1	0,0
9,0	18,97	36,42	26,13	189,4	,17	,01	1521,1	0,0
12,0	18,97	36,42	26,13	189,5	,23	,01	1521,2	0,0
15,0	18,97	36,42	26,13	189,6	,28	,02	1521,2	0,0
18,0	18,97	36,42	26,13	189,8	,34	,03	1521,2	0,0
21,0	18,97	36,42	26,13	189,9	,40	,04	1521,3	0,0
24,0	18,97	36,42	26,13	190,0	,46	,06	1521,3	0,0
27,0	18,97	36,42	26,13	190,1	,51	,07	1521,4	0,0
30,0	18,97	36,42	26,13	190,2	,57	,09	1521,4	0,0
33,0	18,97	36,42	26,13	190,3	,63	,11	1521,5	0,0
36,0	18,97	36,42	26,13	190,4	,69	,13	1521,5	0,0
39,0	18,97	36,42	26,13	190,5	,74	,15	1521,6	0,0
42,0	18,97	36,42	26,13	190,6	,80	,17	1521,6	0,0
45,0	18,97	36,42	26,13	190,7	,86	,20	1521,7	0,0
48,0	18,97	36,42	26,13	190,8	,91	,23	1521,7	0,0
51,0	18,97	36,42	26,13	190,9	,97	,25	1521,8	0,0
54,0	18,97	36,42	26,13	191,1	1,03	,29	1521,8	0,0
57,0	18,97	36,42	26,13	191,2	1,09	,32	1521,9	0,0
60,0	18,97	36,42	26,13	191,3	1,14	,35	1521,9	12,5
63,0	18,97	36,43	26,14	190,7	1,20	,39	1522,0	12,5
66,0	18,97	36,43	26,14	190,8	1,26	,43	1522,0	0,0
69,0	18,97	36,43	26,14	190,9	1,32	,47	1522,1	0,0
72,0	18,97	36,43	26,14	191,0	1,37	,51	1522,1	10,3
75,0	18,95	36,43	26,15	190,6	1,43	,55	1522,1	1,1
78,0	18,94	36,42	26,14	191,2	1,49	,60	1522,1	7,4
81,0	18,88	36,41	26,15	190,5	1,55	,64	1522,0	16,3
84,0	18,86	36,41	26,15	190,2	1,60	,69	1522,0	12,6
87,0	18,85	36,41	26,16	190,0	1,66	,74	1522,0	7,3
90,0	18,85	36,41	26,16	190,1	1,72	,79	1522,1	10,3
93,0	18,83	36,41	26,16	189,8	1,78	,85	1522,1	10,3
96,0	18,83	36,41	26,16	189,9	1,83	,90	1522,1	12,6
99,0	18,80	36,41	26,17	189,2	1,89	,96	1522,1	19,2
102,0	18,76	36,41	26,18	188,4	1,95	1,02	1522,0	16,2
105,0	18,75	36,41	26,18	188,2	2,00	1,08	1522,0	17,7
108,0	18,70	36,41	26,20	187,1	2,06	1,14	1521,9	14,5
111,0	18,65	36,39	26,19	187,5	2,12	1,21	1521,8	12,4
114,0	18,55	36,37	26,20	186,6	2,17	1,27	1521,6	26,9
117,0	18,42	36,36	26,23	184,3	2,23	1,34	1521,2	55,3
120,0	18,05	36,40	26,35	172,7	2,28	1,40	1520,3	60,3
123,0	18,05	36,47	26,41	167,7	2,33	1,47	1520,4	29,8
126,0	18,00	36,44	26,39	168,8	2,38	1,53	1520,3	39,1
129,0	17,75	36,47	26,48	160,8	2,43	1,60	1519,6	52,5
132,0	17,55	36,47	26,53	156,2	2,48	1,66	1519,1	41,5
135,0	17,25	36,42	26,56	153,0	2,53	1,72	1518,2	35,1
138,0	17,05	36,39	26,59	150,6	2,57	1,79	1517,6	25,8

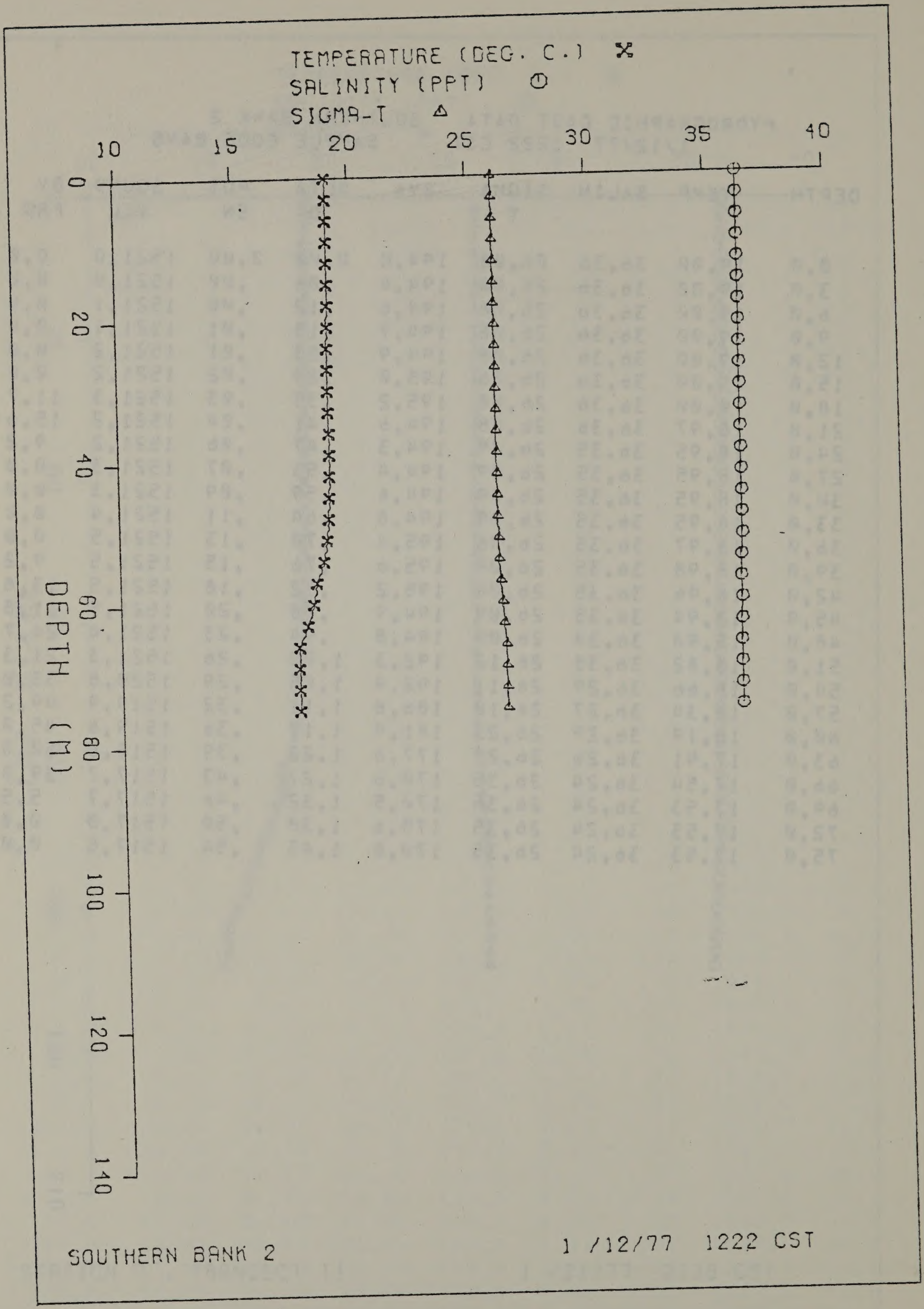
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
141.0	16.86	36.34	26.60	150.0	2.62	1.85	1517.1	35.0
144.0	16.64	36.34	26.65	145.1	2.66	1.92	1516.4	37.0
147.0	16.45	36.30	26.66	143.8	2.71	1.98	1515.9	21.6
150.0	16.15	36.22	26.67	143.0	2.75	2.05	1514.9	41.2
153.0	15.83	36.22	26.74	136.1	2.79	2.11	1514.0	43.6
156.0	15.75	36.22	26.76	134.4	2.83	2.18	1513.8	0.0
159.0	15.73	36.18	26.74	137.0	2.87	2.24	1513.7	0.0
162.0	15.58	36.14	26.74	136.7	2.92	2.31	1513.3	11.8



STATION 7 , TRANSECT II 1 /21/77 2138 CST

HYDROGRAPHIC CAST DATA   SOUTHERN BANK 2
1/12/77 1222 CST   SAMPLE CODE BANS

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	19.00	36.36	26.08	194.0	0.00	0.00	1521.0	0.0
3.0	19.00	36.36	26.08	194.4	.06	.00	1521.0	0.0
6.0	19.00	36.36	26.08	194.6	.12	.00	1521.1	0.0
9.0	19.00	36.36	26.08	194.7	.18	.01	1521.1	0.0
12.0	19.00	36.36	26.08	194.9	.23	.01	1521.2	0.0
15.0	19.00	36.36	26.08	195.0	.29	.02	1521.2	0.0
18.0	19.00	36.36	26.08	195.2	.35	.03	1521.3	11.7
21.0	18.97	36.36	26.08	194.6	.41	.04	1521.2	15.6
24.0	18.95	36.35	26.09	194.3	.47	.06	1521.2	9.2
27.0	18.95	36.35	26.09	194.4	.53	.07	1521.3	0.0
30.0	18.95	36.35	26.09	194.6	.59	.09	1521.3	0.0
33.0	18.95	36.35	26.09	194.8	.64	.11	1521.4	0.0
36.0	18.97	36.35	26.08	195.4	.70	.13	1521.5	0.0
39.0	18.98	36.35	26.08	195.6	.76	.15	1521.5	9.2
42.0	18.96	36.35	26.09	195.2	.82	.18	1521.5	13.8
45.0	18.94	36.35	26.09	194.9	.88	.20	1521.5	11.8
48.0	18.90	36.34	26.09	194.8	.94	.23	1521.4	24.7
51.0	18.82	36.35	26.12	192.3	1.00	.26	1521.3	21.3
54.0	18.66	36.29	26.11	192.9	1.05	.29	1520.8	35.0
57.0	18.34	36.27	26.18	186.8	1.11	.32	1519.9	49.2
60.0	18.19	36.29	26.23	181.9	1.17	.36	1519.6	45.0
63.0	17.91	36.26	26.28	177.6	1.22	.39	1518.8	50.0
66.0	17.54	36.24	26.35	170.6	1.27	.43	1517.7	39.8
69.0	17.53	36.24	26.36	170.5	1.32	.46	1517.7	5.5
72.0	17.53	36.24	26.35	170.6	1.38	.50	1517.8	0.0
75.0	17.53	36.24	26.35	170.8	1.43	.54	1517.8	0.0

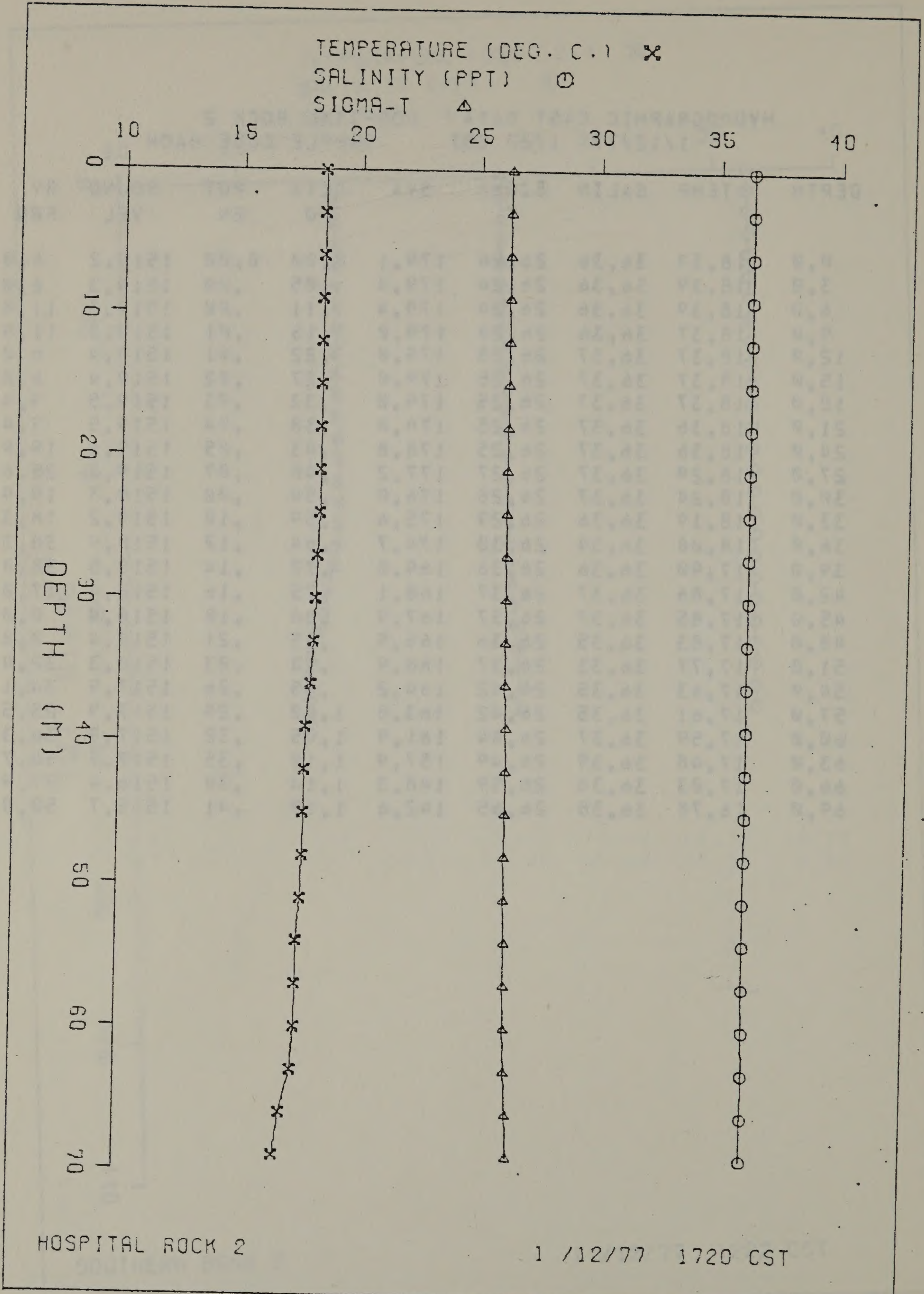


SOUTHERN BANK 2

1 /12/77 1222 CST

HYDROGRAPHIC CAST DATA HOSPITAL ROCK 2
1/12/77 1720 CST SAMPLE CODE BAOW

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.39	36.36	26.24	179.1	0.00	0.00	1519.2	6.0
3.0	18.39	36.36	26.24	179.4	.05	.00	1519.3	6.0
6.0	18.39	36.36	26.24	179.4	.11	.00	1519.3	11.8
9.0	18.37	36.36	26.24	179.0	.16	.01	1519.3	11.8
12.0	18.37	36.37	26.25	179.0	.22	.01	1519.4	6.0
15.0	18.37	36.37	26.25	179.0	.27	.02	1519.4	6.0
18.0	18.37	36.37	26.25	179.0	.32	.03	1519.5	9.4
21.0	18.36	36.37	26.25	178.8	.38	.04	1519.5	9.4
24.0	18.36	36.37	26.25	178.8	.43	.05	1519.6	19.9
27.0	18.29	36.37	26.27	177.2	.48	.07	1519.4	25.6
30.0	18.24	36.37	26.28	176.0	.54	.08	1519.3	19.9
33.0	18.19	36.36	26.29	175.6	.59	.10	1519.2	18.3
36.0	18.08	36.34	26.30	174.7	.64	.12	1518.9	38.3
39.0	17.90	36.36	26.36	169.0	.70	.14	1518.5	38.4
42.0	17.86	36.37	26.37	168.1	.75	.16	1518.4	17.0
45.0	17.85	36.37	26.37	167.9	.80	.18	1518.4	0.0
48.0	17.83	36.35	26.36	168.9	.85	.21	1518.4	0.0
51.0	17.77	36.33	26.37	168.9	.90	.23	1518.3	32.4
54.0	17.63	36.35	26.42	164.2	.95	.26	1517.9	34.1
57.0	17.61	36.35	26.42	163.8	1.00	.29	1517.9	23.5
60.0	17.59	36.37	26.44	161.9	1.05	.32	1517.9	36.3
63.0	17.48	36.39	26.49	157.9	1.10	.35	1517.7	54.7
66.0	17.03	36.38	26.59	148.3	1.14	.38	1516.4	57.9
69.0	16.78	36.38	26.65	142.6	1.19	.41	1515.7	50.0



HOSPITAL ROCK 2

1 /12/77 1720 CST

HYDROGRAPHIC CAST DATA   STATION 4 / TRANSECT III

1/20/77 1952 CST   SAMPLE CODE BAVQ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	10.90	31.53	24.12	380.6	0.00	0.00	1489.2	23.6
3.0	10.94	31.55	24.13	379.7	.11	.00	1489.4	28.0
6.0	10.95	31.59	24.16	377.4	.23	.01	1489.6	30.8
9.0	10.99	31.63	24.18	375.4	.34	.02	1489.8	206.0
12.0	10.99	34.25	26.22	181.6	.43	.02	1493.2	183.7
15.0	13.18	34.28	25.82	219.5	.49	.03	1500.8	0.0

HYDROGRAPHIC CAST DATA   STATION 1 / TRANSECT III

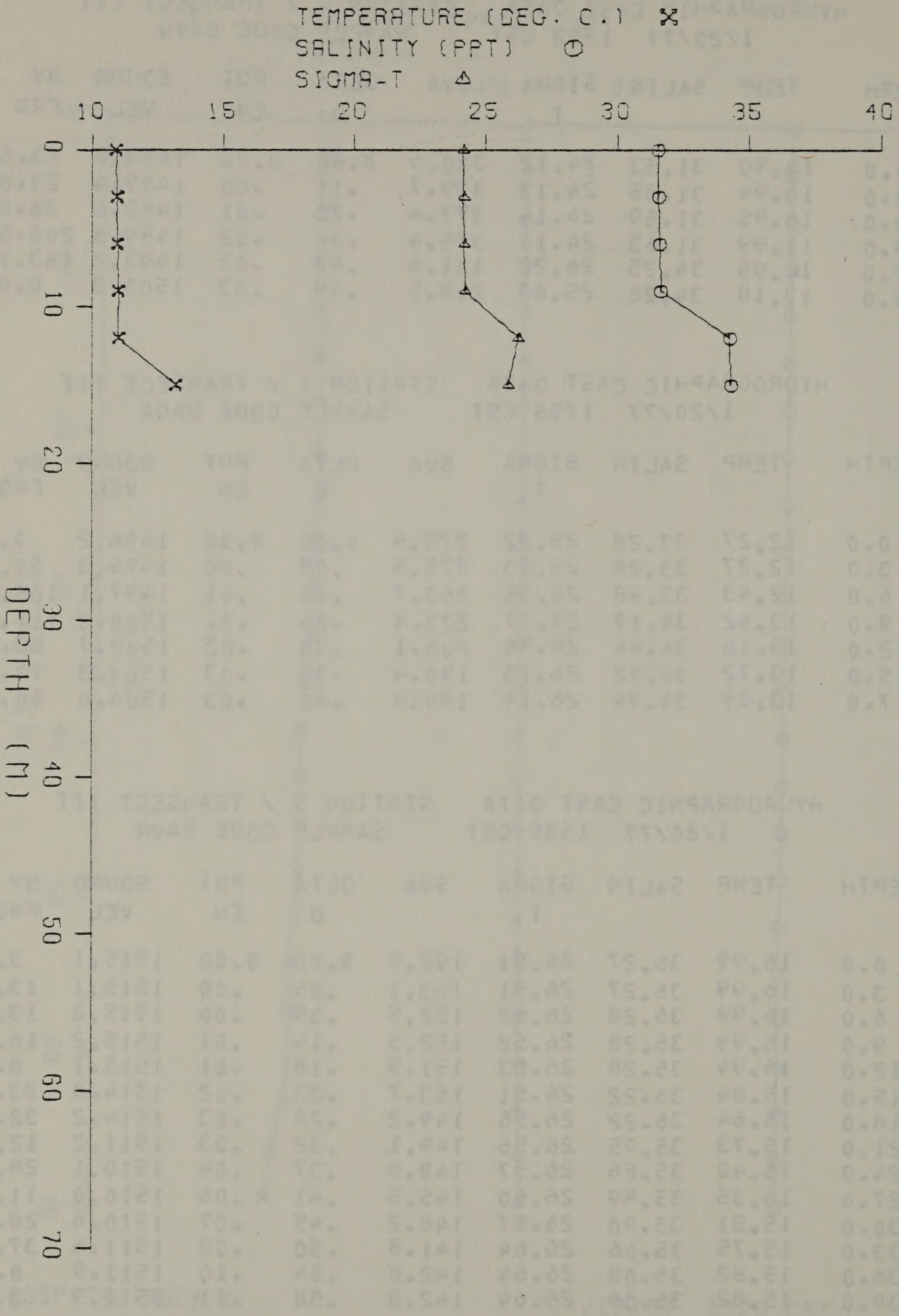
1/20/77 1755 CST   SAMPLE CODE BAQA

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	12.27	33.28	25.22	275.4	0.00	0.00	1496.2	9.8
3.0	12.27	33.28	25.23	275.5	.08	.00	1496.3	51.1
6.0	12.43	33.48	25.35	263.7	.16	.01	1497.1	105.9
9.0	13.02	34.17	25.77	223.8	.24	.01	1500.0	111.8
12.0	13.10	34.44	25.96	206.1	.30	.02	1500.7	85.4
15.0	13.72	34.82	26.13	190.4	.36	.03	1503.3	72.5
17.0	13.89	34.94	26.18	184.8	.40	.03	1504.0	60.2

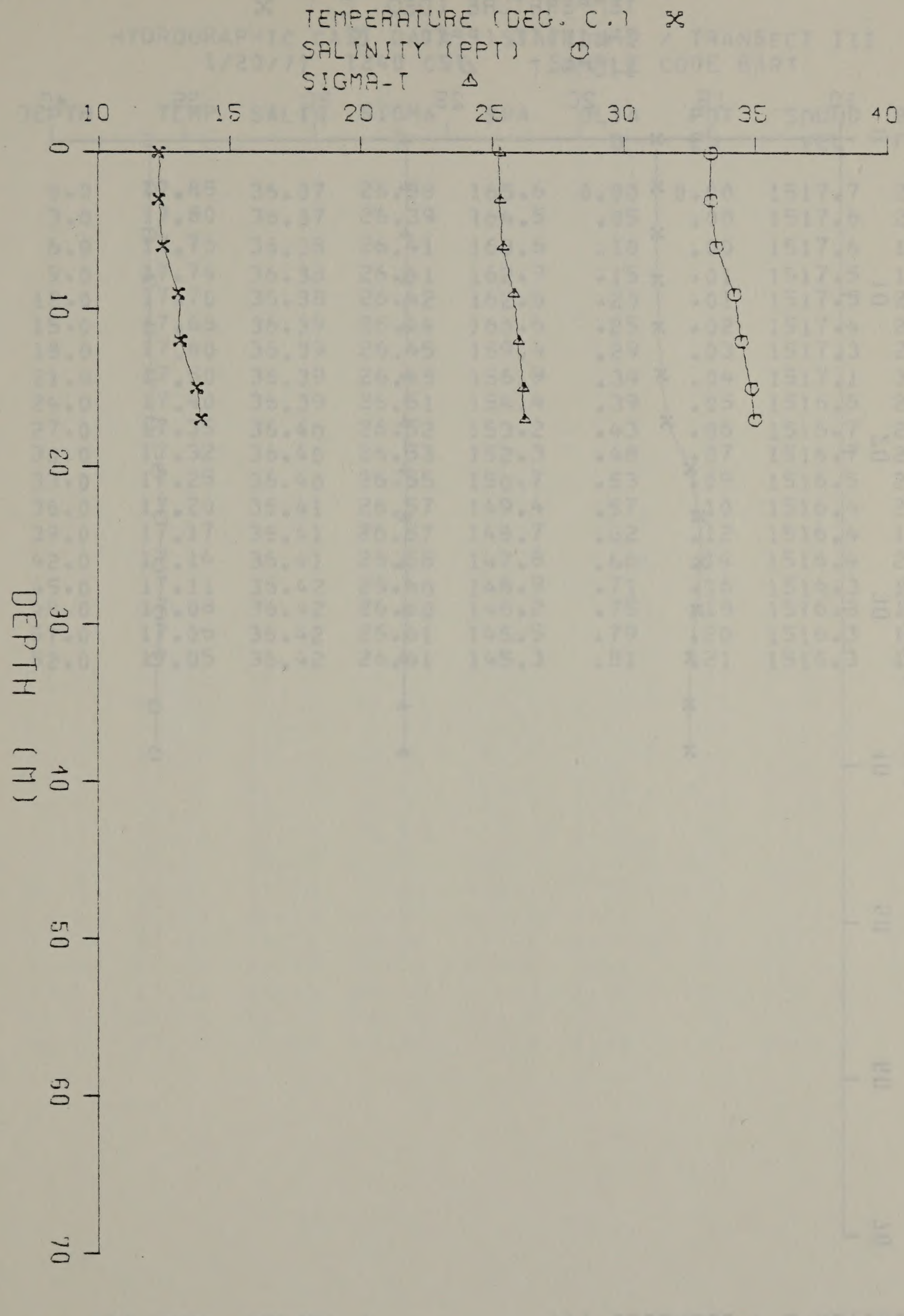
HYDROGRAPHIC CAST DATA   STATION 5 / TRANSECT III

1/20/77 1535 CST   SAMPLE CODE BAVR

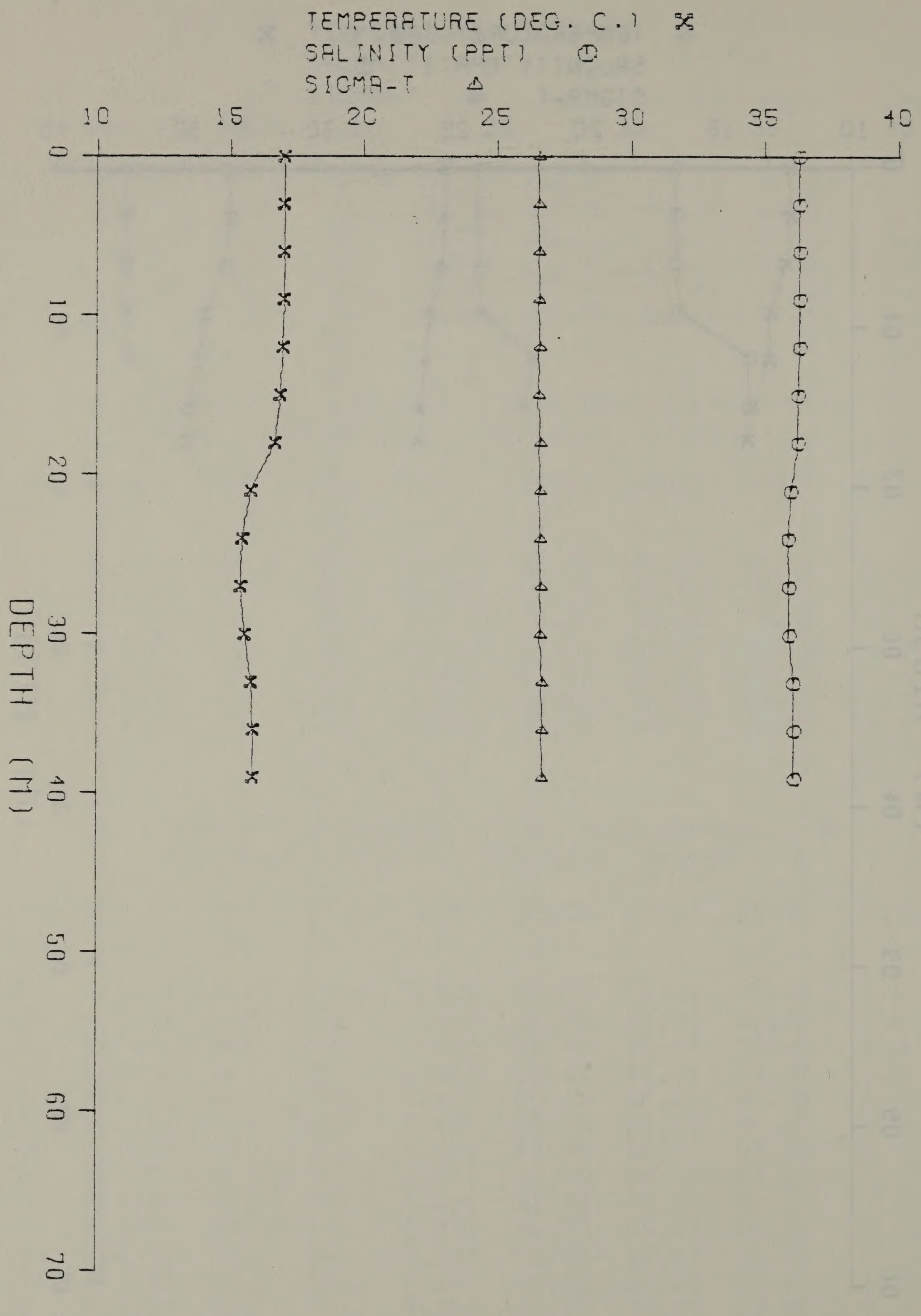
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	16.99	36.27	26.51	152.8	0.00	0.00	1515.1	3.2
3.0	16.99	36.27	26.51	153.1	.05	.00	1515.1	13.0
6.0	16.99	36.28	26.52	152.5	.09	.00	1515.2	13.0
9.0	16.99	36.28	26.52	152.5	.14	.01	1515.2	16.0
12.0	16.94	36.28	26.53	151.5	.18	.01	1515.1	0.0
15.0	16.84	36.22	26.51	153.7	.23	.02	1514.8	23.1
18.0	16.64	36.22	26.56	149.2	.28	.03	1514.2	32.0
21.0	15.73	35.95	26.56	149.1	.32	.03	1511.2	12.6
24.0	15.40	35.86	26.57	148.6	.37	.04	1510.1	28.8
27.0	15.35	35.89	26.60	145.5	.41	.06	1510.0	11.5
30.0	15.51	35.90	26.57	148.2	.45	.07	1510.6	28.9
33.0	15.75	36.06	26.64	141.8	.50	.08	1511.6	37.5
36.0	15.82	36.08	26.64	142.0	.54	.10	1511.9	0.0
39.0	15.82	36.08	26.64	142.0	.58	.11	1511.9	3.1



STATION 4 / TRANSECT III 1 /20/77 1952 CST



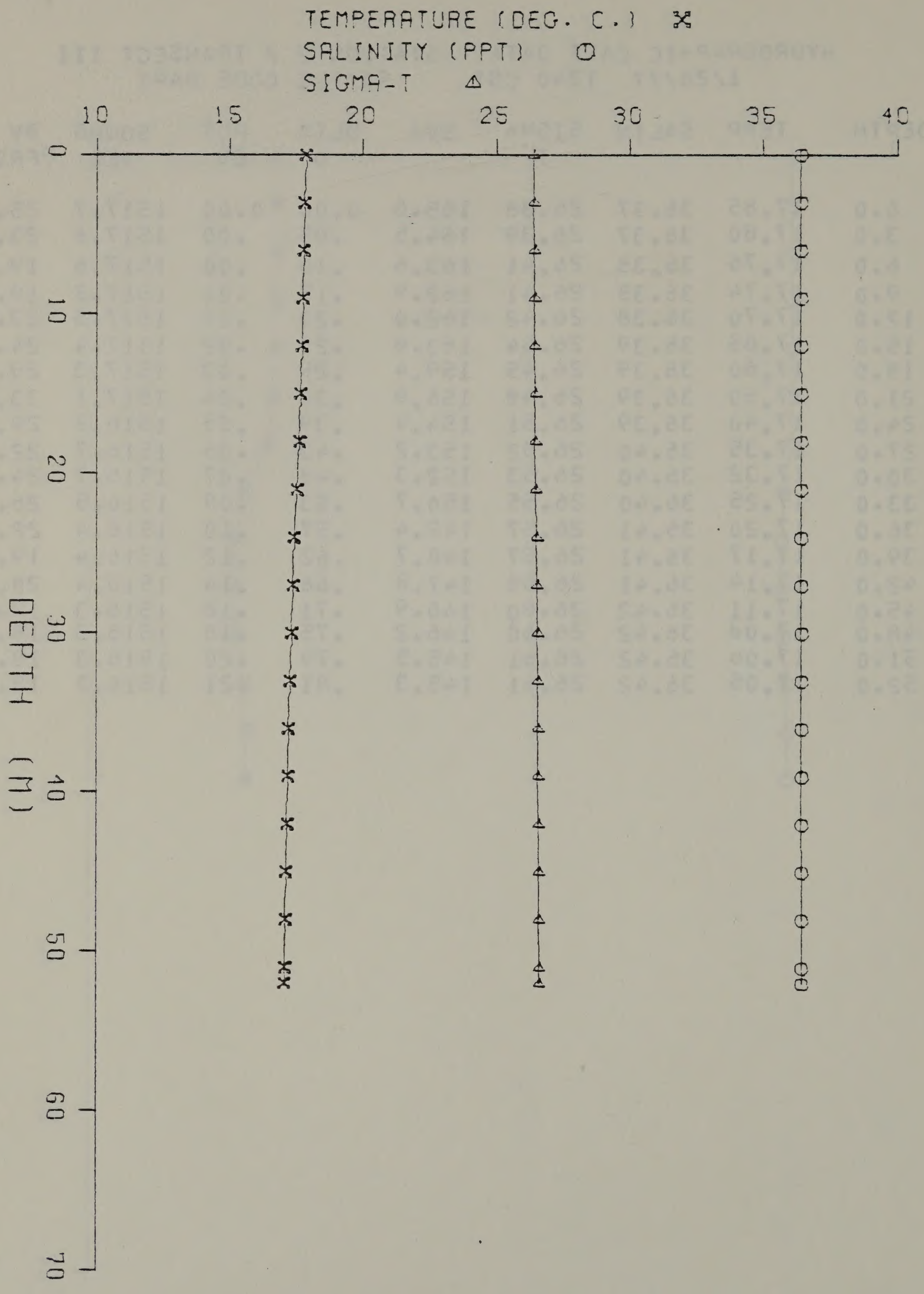
STATION 1 / TRANSECT III 1/20/77 1755 CST



STATION 5 / TRANSECT III 1/20/77 1535 CST

HYDROGRAPHIC CAST DATA   STATION 2 / TRANSECT III
1/20/77 1240 CST   SAMPLE CODE BART

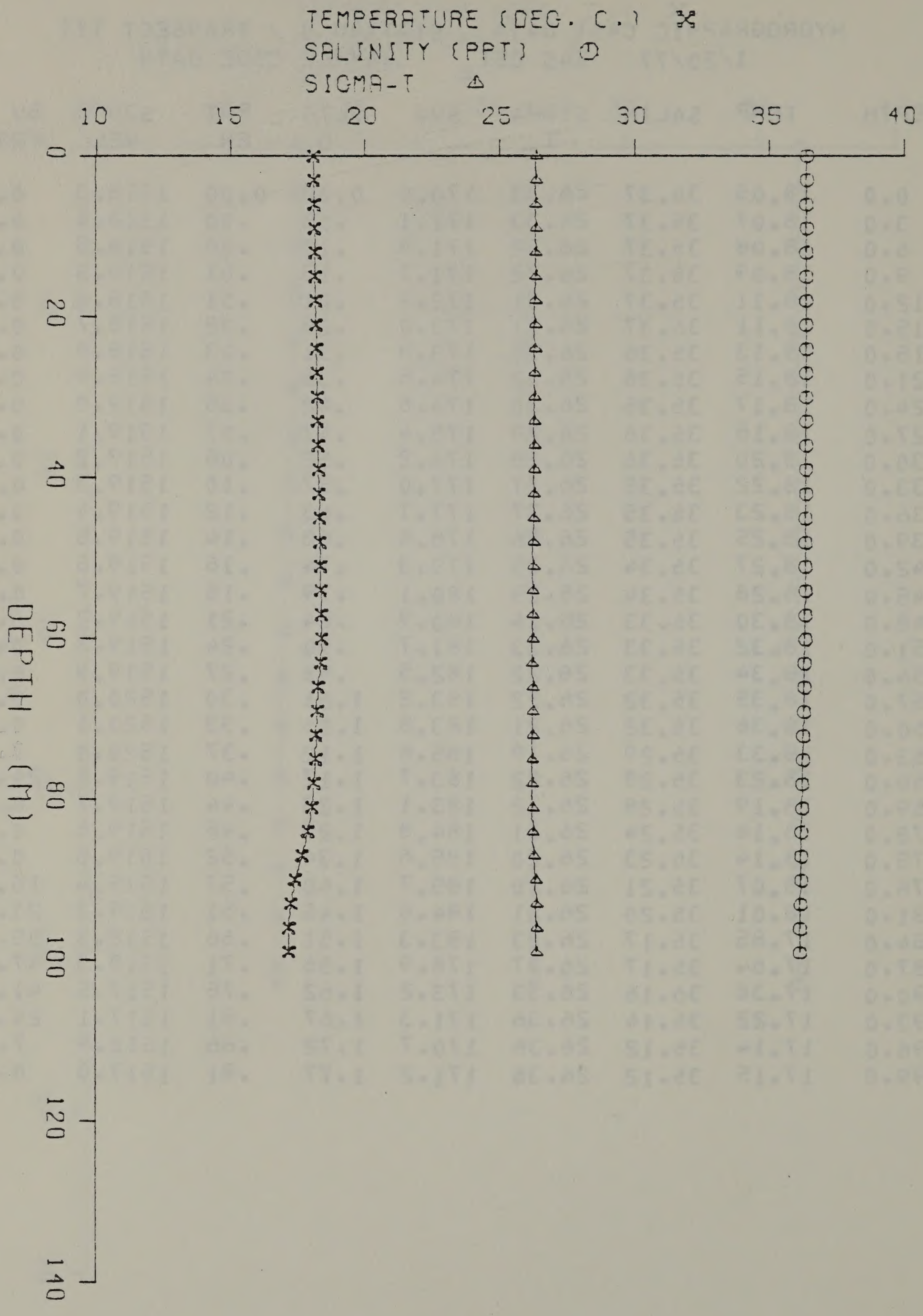
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	17.85	36.37	26.38	165.6	0.00	0.00	1517.7	25.4
3.0	17.80	36.37	26.39	164.5	.05	.00	1517.6	23.3
6.0	17.76	36.38	26.41	163.6	.10	.00	1517.6	19.8
9.0	17.74	36.38	26.41	162.9	.15	.01	1517.5	19.8
12.0	17.70	36.38	26.42	162.0	.20	.01	1517.5	23.3
15.0	17.65	36.39	26.44	160.6	.25	.02	1517.4	24.3
18.0	17.60	36.39	26.45	159.4	.29	.03	1517.3	29.0
21.0	17.50	36.39	26.48	156.9	.34	.04	1517.1	33.8
24.0	17.40	36.39	26.51	154.4	.39	.05	1516.8	29.0
27.0	17.35	36.40	26.52	153.2	.43	.06	1516.7	22.1
30.0	17.32	36.40	26.53	152.3	.48	.07	1516.7	24.2
33.0	17.25	36.40	26.55	150.7	.53	.09	1516.5	26.2
36.0	17.20	36.41	26.57	149.4	.57	.10	1516.4	22.0
39.0	17.17	36.41	26.57	148.7	.62	.12	1516.4	19.6
42.0	17.14	36.41	26.58	147.8	.66	.14	1516.4	20.8
45.0	17.11	36.42	26.60	146.9	.71	.16	1516.3	19.6
48.0	17.08	36.42	26.60	146.2	.75	.18	1516.3	18.3
51.0	17.06	36.42	26.61	145.5	.79	.20	1516.3	18.3
52.0	17.05	36.42	26.61	145.3	.81	.21	1516.3	18.3



STATION 2 / TRANSECT III 1 /20/77 1240 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT III
1/20/77 545 CST SAMPLE CODE BATN

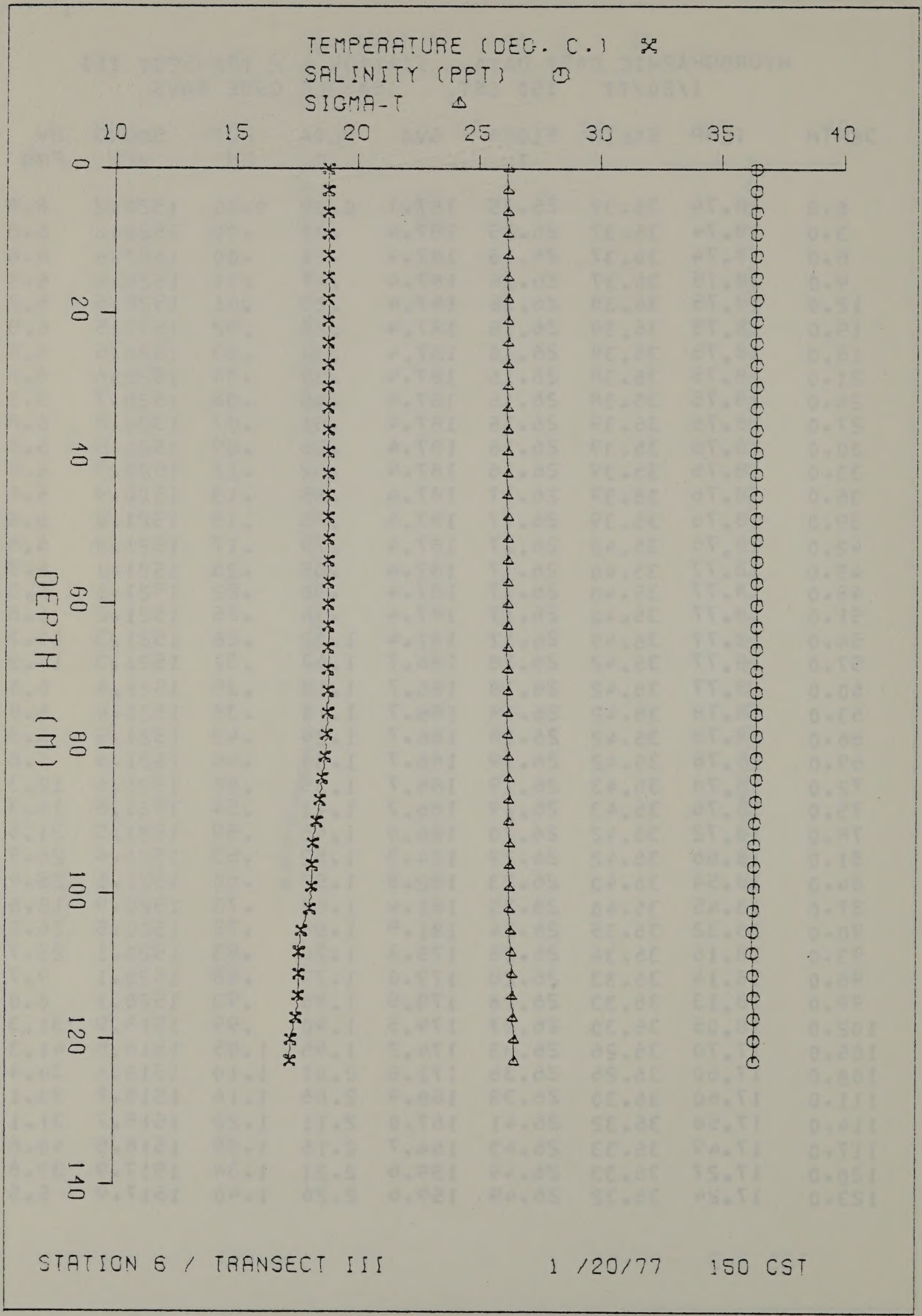
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.05	36.37	26.33	170.0	0.00	0.00	1518.3	0.0
3.0	18.07	36.37	26.33	171.1	.05	.00	1518.4	0.0
6.0	18.08	36.37	26.32	171.8	.10	.00	1518.5	0.0
9.0	18.09	36.37	26.32	171.7	.15	.01	1518.5	0.0
12.0	18.11	36.37	26.31	172.4	.21	.01	1518.6	0.0
15.0	18.11	36.37	26.31	173.0	.26	.02	1518.7	0.0
18.0	18.13	36.36	26.30	173.8	.31	.03	1518.8	0.0
21.0	18.15	36.36	26.30	174.6	.36	.04	1518.9	0.0
24.0	18.17	36.36	26.30	174.6	.42	.05	1519.0	0.0
27.0	18.18	36.36	26.29	175.4	.47	.07	1519.1	0.0
30.0	18.20	36.36	26.28	176.2	.52	.08	1519.2	0.0
33.0	18.22	36.35	26.27	177.0	.57	.10	1519.3	0.0
36.0	18.23	36.35	26.27	177.7	.63	.12	1519.4	0.0
39.0	18.25	36.35	26.26	178.5	.68	.14	1519.5	0.0
42.0	18.27	36.34	26.25	179.3	.74	.16	1519.6	0.0
45.0	18.28	36.34	26.25	180.1	.79	.18	1519.7	0.0
48.0	18.30	36.33	26.24	180.9	.84	.21	1519.7	0.0
51.0	18.32	36.33	26.23	181.7	.90	.24	1519.8	0.0
54.0	18.34	36.33	26.22	182.5	.95	.27	1519.9	0.0
57.0	18.35	36.32	26.22	183.2	1.01	.30	1520.0	0.0
60.0	18.36	36.32	26.21	183.8	1.06	.33	1520.1	0.0
63.0	18.33	36.29	26.19	185.6	1.12	.37	1520.0	7.7
66.0	18.23	36.28	26.22	183.7	1.17	.40	1519.8	24.1
69.0	18.19	36.28	26.22	183.1	1.23	.44	1519.7	0.0
72.0	18.16	36.24	26.21	184.8	1.29	.48	1519.6	0.0
75.0	18.14	36.23	26.20	185.6	1.34	.52	1519.6	0.0
78.0	18.07	36.21	26.20	185.7	1.40	.57	1519.4	16.2
81.0	18.01	36.20	26.21	184.6	1.45	.61	1519.3	23.7
84.0	17.85	36.17	26.23	183.3	1.51	.66	1518.8	35.6
87.0	17.64	36.17	26.27	178.9	1.56	.71	1518.3	47.2
90.0	17.38	36.16	26.33	173.2	1.62	.76	1517.5	41.2
93.0	17.22	36.14	26.36	171.3	1.67	.81	1517.1	24.1
96.0	17.14	36.12	26.36	170.7	1.72	.86	1516.9	7.1
99.0	17.15	36.12	26.36	171.2	1.77	.91	1517.0	0.0



STATION 3 / TRANSECT III 1 /20/77 545 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT III
1/20/77 150 CST SAMPLE CODE BAVS

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.74	36.37	26.15	187.1	0.00	0.00	1520.2	6.8
3.0	18.74	36.37	26.15	187.4	.06	.00	1520.3	6.8
6.0	18.74	36.37	26.15	187.4	.11	.00	1520.4	6.8
9.0	18.75	36.37	26.16	187.4	.17	.01	1520.4	6.8
12.0	18.75	36.38	26.16	187.4	.23	.01	1520.5	6.8
15.0	18.75	36.38	26.16	187.4	.28	.02	1520.5	6.8
18.0	18.75	36.38	26.16	187.4	.34	.03	1520.6	6.8
21.0	18.75	36.38	26.16	187.4	.39	.04	1520.6	6.8
24.0	18.75	36.38	26.16	187.4	.45	.06	1520.7	6.8
27.0	18.76	36.39	26.16	187.4	.51	.07	1520.8	6.8
30.0	18.76	36.39	26.16	187.4	.56	.09	1520.8	6.8
33.0	18.76	36.39	26.16	187.4	.62	.11	1520.9	6.8
36.0	18.76	36.39	26.17	187.4	.68	.13	1520.9	6.8
39.0	18.76	36.39	26.17	187.4	.73	.15	1521.0	6.8
42.0	18.76	36.40	26.17	187.4	.79	.17	1521.0	6.8
45.0	18.77	36.40	26.17	187.4	.85	.20	1521.1	6.8
48.0	18.77	36.40	26.17	187.4	.90	.22	1521.1	6.8
51.0	18.77	36.40	26.17	187.4	.96	.25	1521.2	6.8
54.0	18.77	36.40	26.17	187.4	1.02	.28	1521.3	14.2
57.0	18.77	36.42	26.18	186.7	1.07	.31	1521.3	14.2
60.0	18.77	36.42	26.18	186.7	1.13	.35	1521.4	6.8
63.0	18.78	36.42	26.18	186.7	1.18	.38	1521.4	6.8
66.0	18.78	36.42	26.18	186.7	1.24	.42	1521.5	6.8
69.0	18.78	36.42	26.19	186.7	1.30	.46	1521.6	6.8
72.0	18.78	36.43	26.19	186.7	1.35	.50	1521.6	12.3
75.0	18.76	36.43	26.19	186.2	1.41	.54	1521.6	14.3
78.0	18.72	36.42	26.20	186.0	1.46	.59	1521.5	21.6
81.0	18.66	36.42	26.22	184.3	1.52	.63	1521.4	26.9
84.0	18.54	36.40	26.23	182.8	1.58	.68	1521.1	25.9
87.0	18.45	36.40	26.25	181.4	1.63	.73	1520.9	15.6
90.0	18.32	36.35	26.24	181.9	1.69	.78	1520.5	24.5
93.0	18.16	36.34	26.28	178.8	1.74	.83	1520.1	25.7
96.0	18.14	36.33	26.28	179.0	1.79	.88	1520.1	9.7
99.0	18.13	36.33	26.28	178.5	1.85	.93	1520.1	0.0
102.0	18.05	36.30	26.27	179.5	1.90	.99	1519.9	31.3
105.0	17.70	36.26	26.33	174.2	1.95	1.05	1518.8	41.3
108.0	17.60	36.26	26.36	171.8	2.01	1.10	1518.6	34.4
111.0	17.60	36.30	26.39	168.9	2.06	1.16	1518.7	33.1
114.0	17.58	36.32	26.41	167.0	2.11	1.22	1518.7	31.1
117.0	17.49	36.33	26.43	164.7	2.16	1.28	1518.5	40.6
120.0	17.27	36.33	26.49	159.6	2.21	1.34	1517.9	33.8
123.0	17.24	36.32	26.49	159.6	2.26	1.40	1517.9	5.5



STATION 6 / TRANSECT III 1 /20/77 150 CST

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          HYDROGRAPHIC CAST DATA    STATION 4 / TRANSECT IV
                1/19/77  1100 CST      SAMPLE CODE BBBJ

DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND    BV
                            T                D      EN      VEL    FRQ

  0.0     10.88   31.76   24.30   363.1   0.00    0.00   1489.4   50.3
  3.0     10.79   31.82   24.36   357.6    .11     .00   1489.2   47.3
  6.0     10.78   31.88   24.41   353.2    .22     .01   1489.3   68.5
  9.0     10.80   32.12   24.59   336.0    .32     .01   1489.8   89.7
 12.0     11.06   32.44   24.80   316.1    .42     .03   1491.1   76.8
 13.0     11.06   32.48   24.83   313.7    .45     .03   1491.2   56.2


          HYDROGRAPHIC CAST DATA    STATION 1 / TRANSECT IV
                1/19/77  1245 CST      SAMPLE CODE BAVT

DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND    BV
                            T                D      EN      VEL    FRQ

  0.0     12.68   33.74   25.50   248.7   0.00    0.00   1498.2   43.5
  3.0     12.55   33.77   25.55   244.7    .07     .00   1497.9   38.1
  6.0     12.54   33.80   25.57   242.5    .15     .00   1497.9   35.9
  9.0     12.53   33.84   25.61   238.9    .22     .01   1498.0   42.4
 12.0     12.63   33.93   25.66   234.3    .29     .02   1498.5   36.4
 15.0     12.67   33.96   25.68   233.0    .36     .03   1498.7   25.4
 18.0     12.69   33.99   25.69   231.5    .43     .04   1498.9   23.8
 21.0     12.75   34.02   25.70   230.5    .50     .05   1499.1   56.2
 24.0     13.07   34.28   25.85   217.1    .57     .07   1500.6   76.6


          HYDROGRAPHIC CAST DATA    STATION 5 / TRANSECT IV
                1/19/77  1540 CST      SAMPLE CODE BBBK

DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND    BV
                            T                D      EN      VEL    FRQ

  0.0     15.50   35.65   26.38   165.3   0.00    0.00   1509.8   70.0
  3.0     16.20   36.01   26.50   154.4    .05     .00   1512.4   32.0
  6.0     16.81   36.11   26.43   161.1    .10     .00   1514.4    0.0
  9.0     16.76   36.12   26.45   159.1    .14     .01   1514.3   28.5
 12.0     16.73   36.14   26.47   157.5    .19     .01   1514.3   23.9
 15.0     16.73   36.15   26.48   156.7    .24     .02   1514.4   21.7
 18.0     16.73   36.17   26.49   155.6    .29     .03   1514.4   21.7
 21.0     16.73   36.18   26.50   154.7    .33     .04   1514.5   21.7
 24.0     16.72   36.19   26.52   153.6    .38     .05   1514.6   21.7
 27.0     16.72   36.21   26.53   152.7    .43     .06   1514.6   20.6
 30.0     16.73   36.22   26.54   151.8    .47     .07   1514.7   20.6
 33.0     16.73   36.24   26.55   150.9    .52     .09   1514.8   20.6
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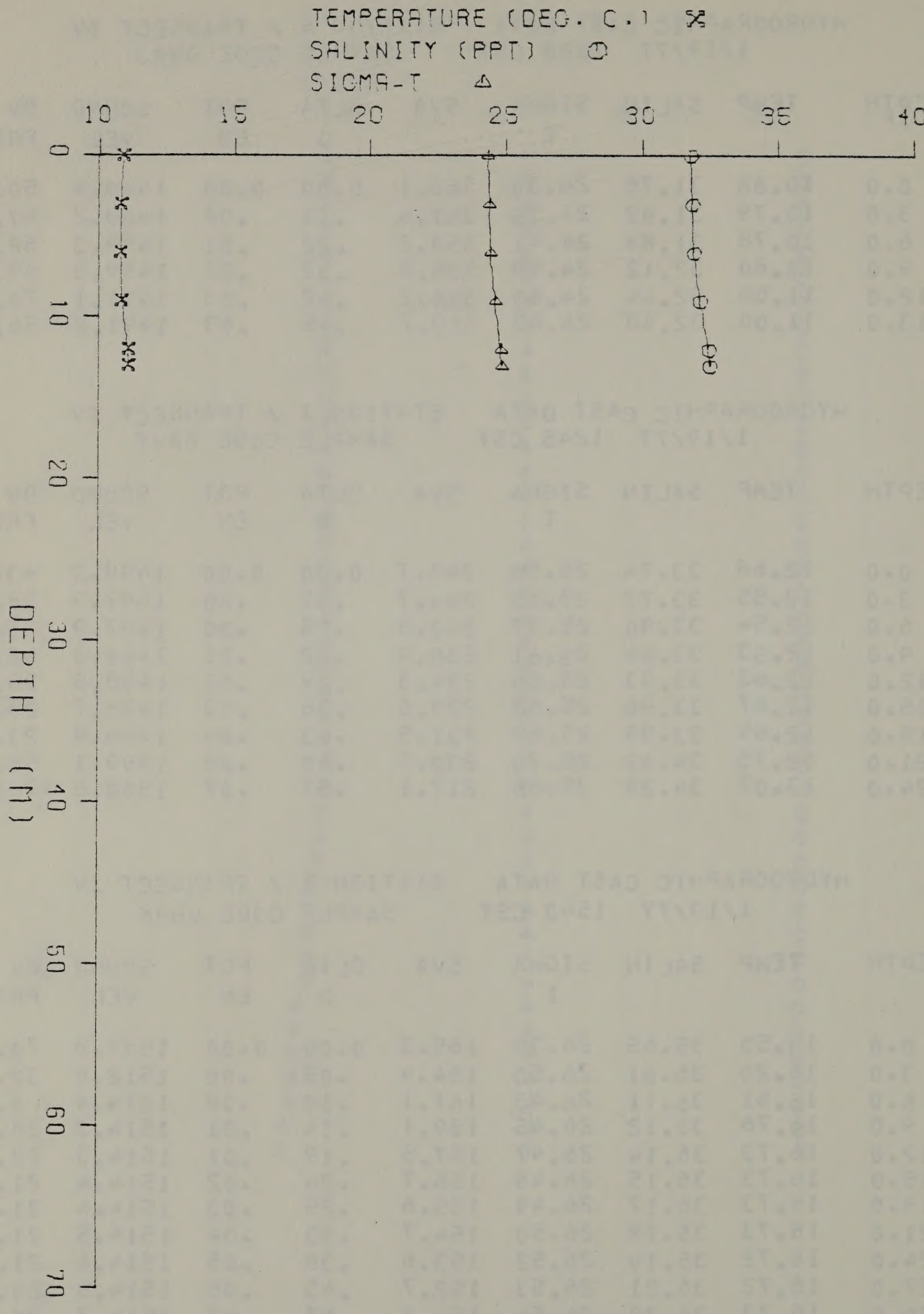
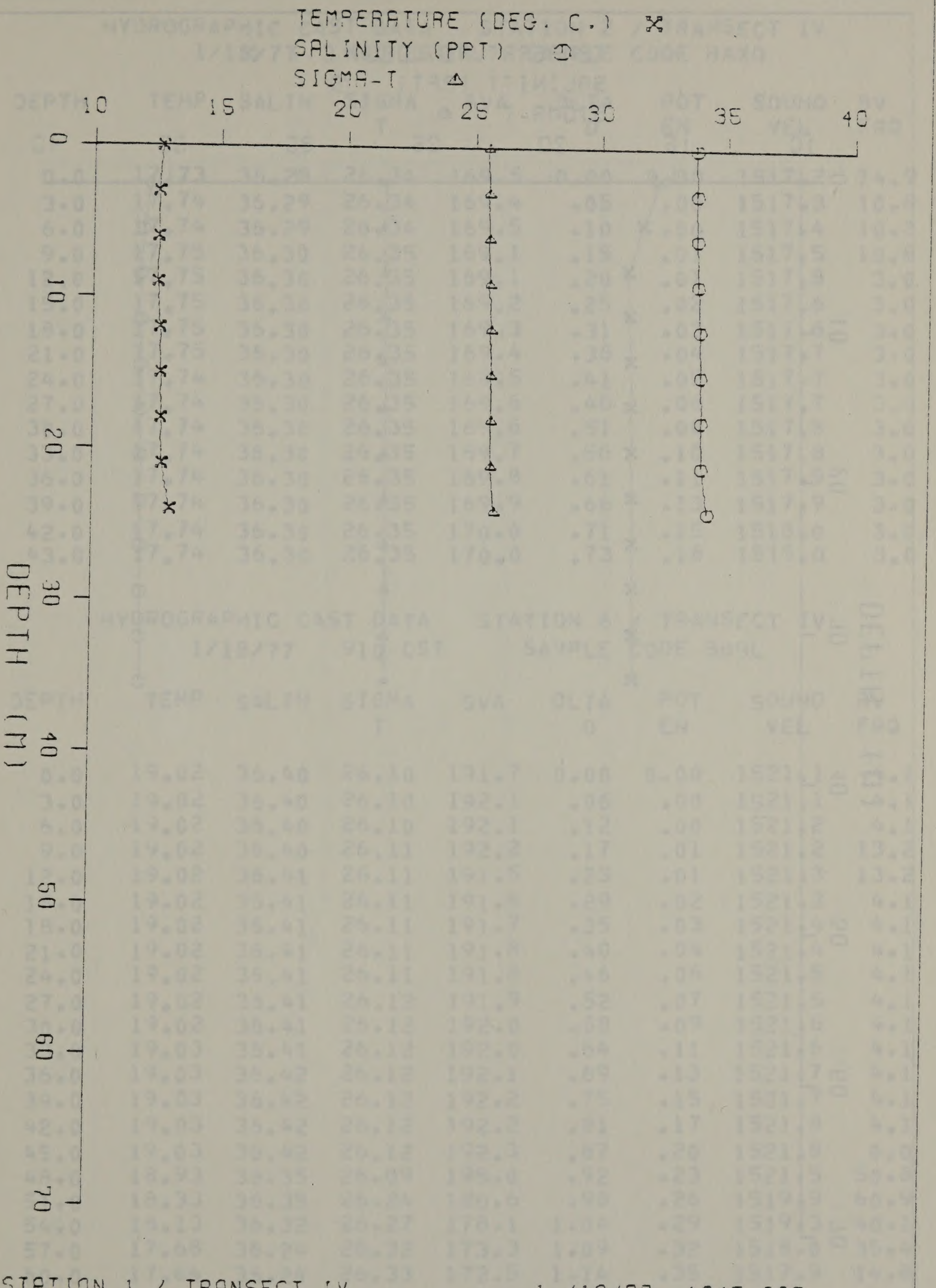
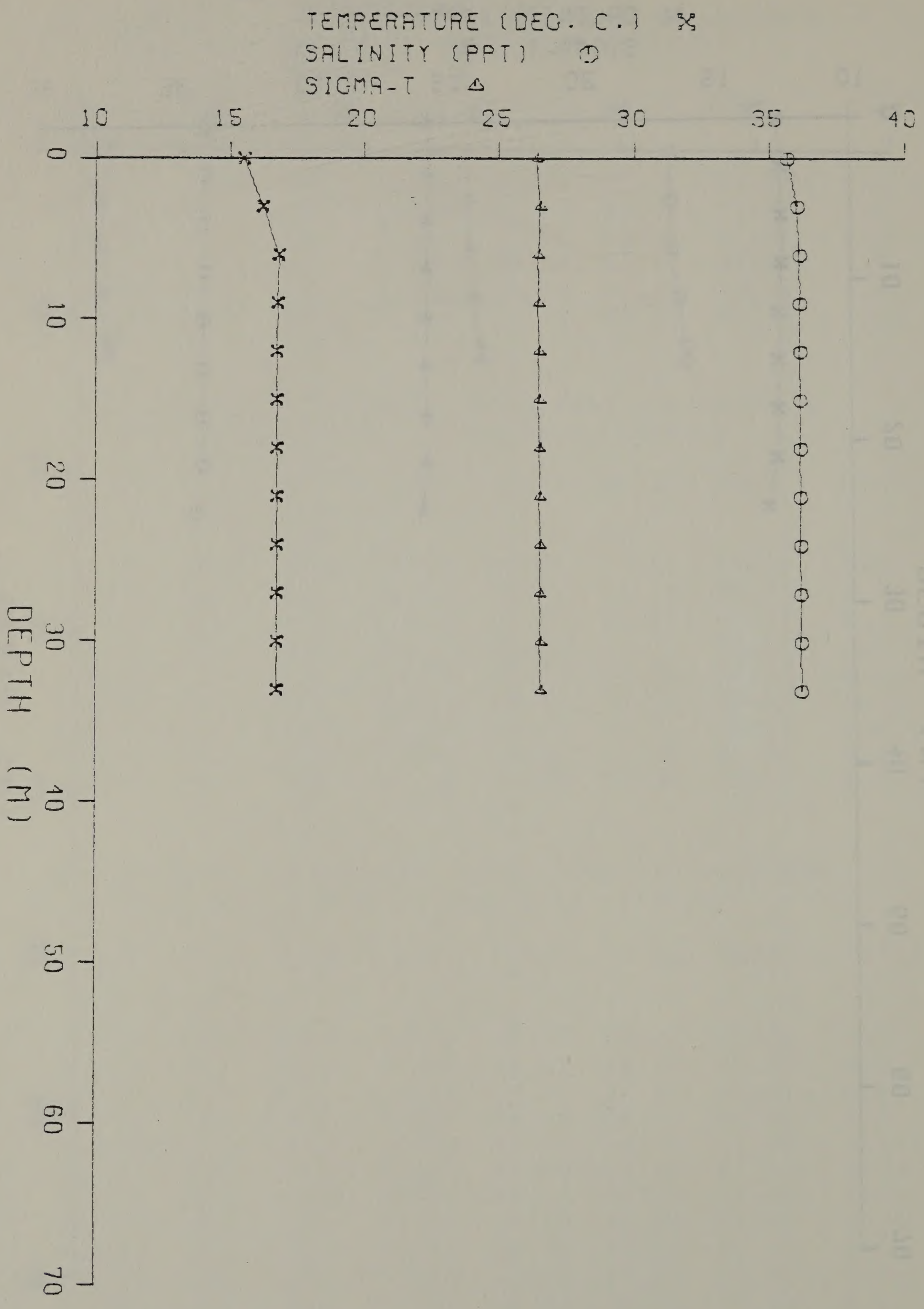


STATION 4 / TRANSECT IV 1 /19/77 1100 CST



STATION 1 / TRANSECT IV 1/19/77 1245 CST



STATION 5 / TRANSECT IV 1 /19/77 1540 CST

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT IV

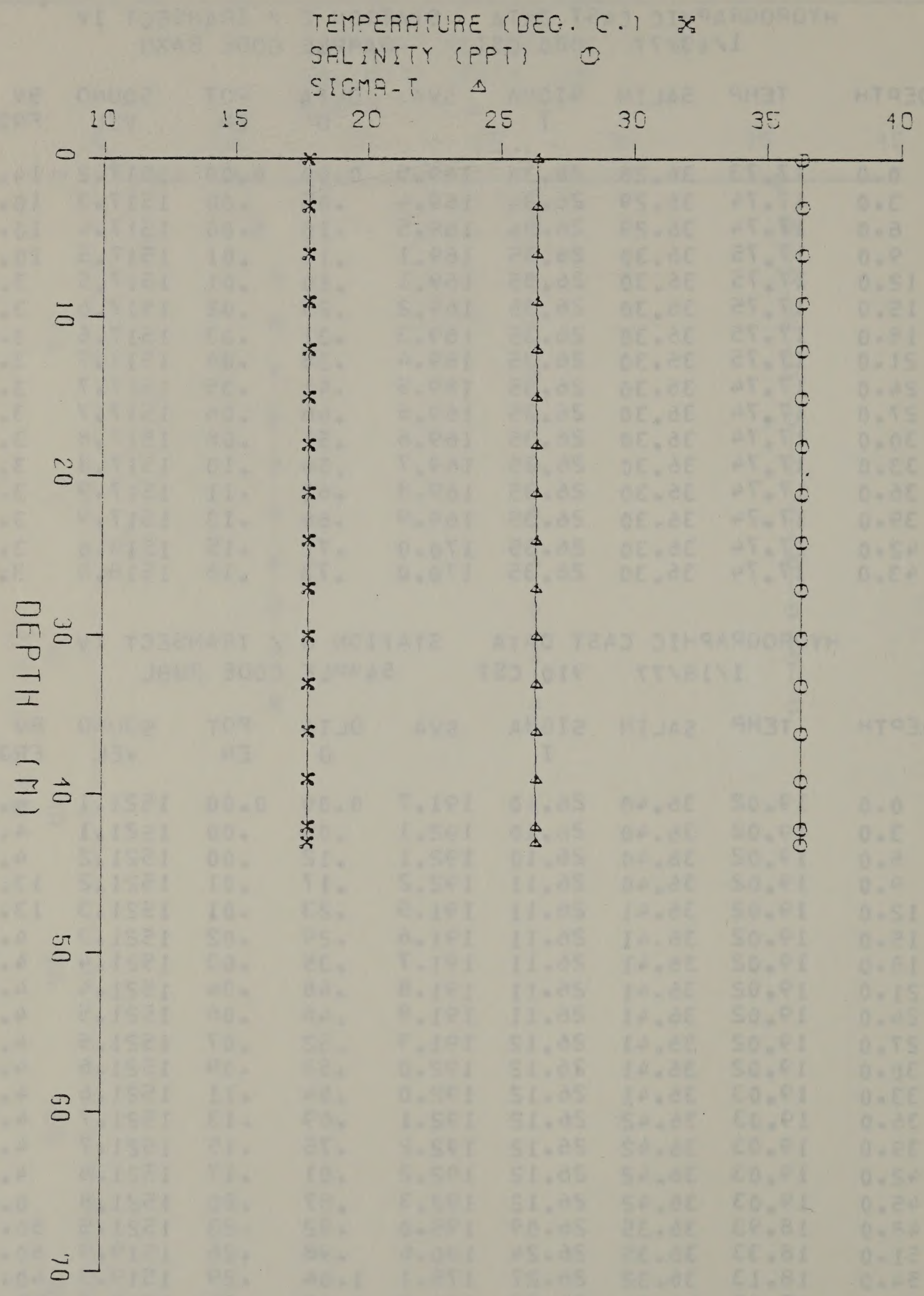
1/18/77 800 CST SAMPLE CODE BAXQ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	17.73	36.28	26.34	169.5	0.00	0.00	1517.2	14.9
3.0	17.74	36.29	26.34	169.4	.05	.00	1517.3	10.8
6.0	17.74	36.29	26.34	169.5	.10	.00	1517.4	10.8
9.0	17.75	36.30	26.35	169.1	.15	.01	1517.5	10.8
12.0	17.75	36.30	26.35	169.1	.20	.01	1517.5	3.0
15.0	17.75	36.30	26.35	169.2	.25	.02	1517.6	3.0
18.0	17.75	36.30	26.35	169.3	.31	.03	1517.6	3.0
21.0	17.75	36.30	26.35	169.4	.36	.04	1517.7	3.0
24.0	17.74	36.30	26.35	169.5	.41	.05	1517.7	3.0
27.0	17.74	36.30	26.35	169.6	.46	.06	1517.7	3.0
30.0	17.74	36.30	26.35	169.6	.51	.08	1517.8	3.0
33.0	17.74	36.30	26.35	169.7	.56	.10	1517.8	3.0
36.0	17.74	36.30	26.35	169.8	.61	.11	1517.9	3.0
39.0	17.74	36.30	26.35	169.9	.66	.13	1517.9	3.0
42.0	17.74	36.30	26.35	170.0	.71	.15	1518.0	3.0
43.0	17.74	36.30	26.35	170.0	.73	.16	1518.0	3.0

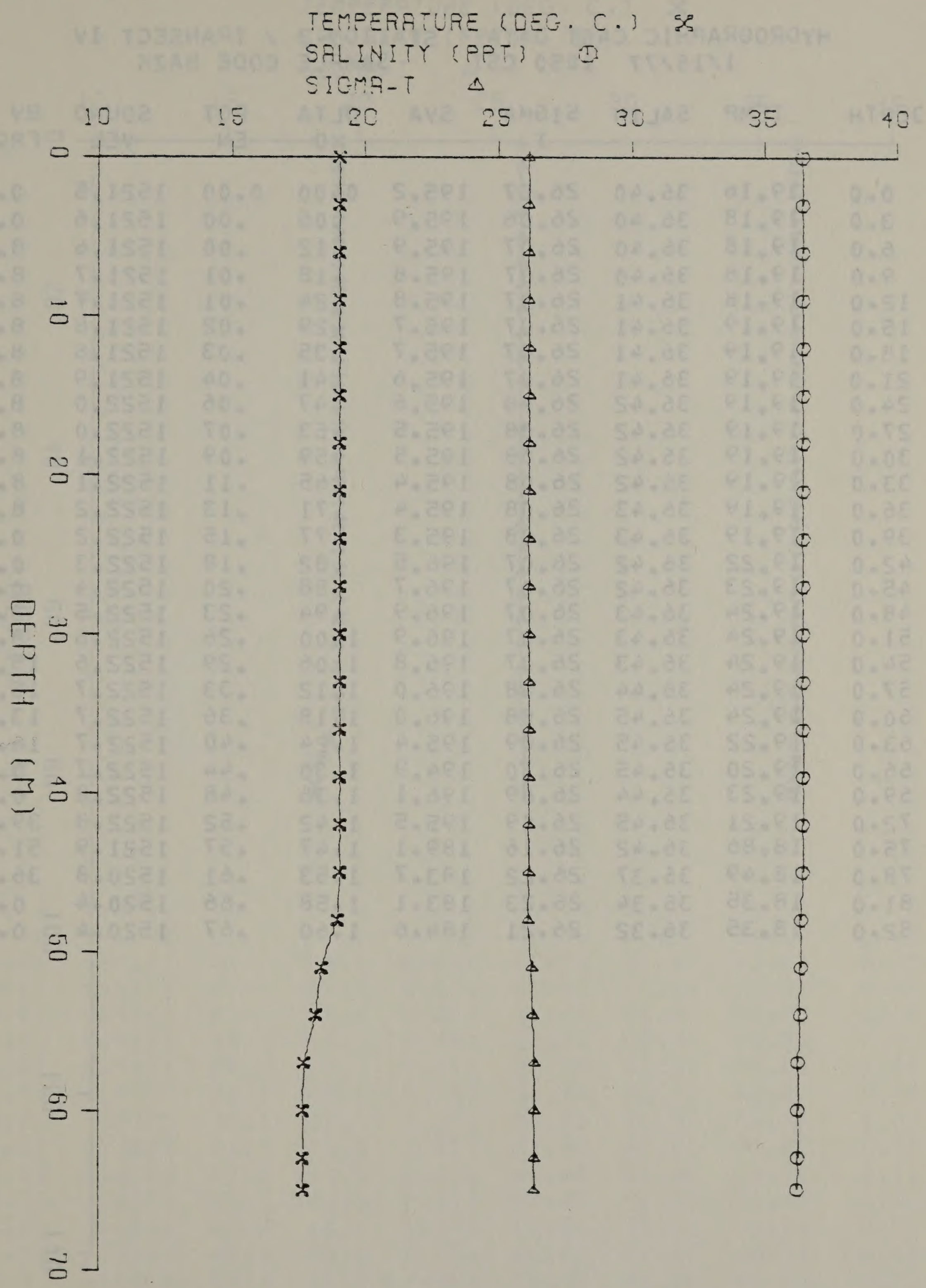
HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT IV

1/18/77 910 CST SAMPLE CODE BBBL

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	19.02	36.40	26.10	191.7	0.00	0.00	1521.1	4.1
3.0	19.02	36.40	26.10	192.1	.06	.00	1521.1	4.1
6.0	19.02	36.40	26.10	192.1	.12	.00	1521.2	4.1
9.0	19.02	36.40	26.11	192.2	.17	.01	1521.2	13.2
12.0	19.02	36.41	26.11	191.5	.23	.01	1521.3	13.2
15.0	19.02	36.41	26.11	191.6	.29	.02	1521.3	4.1
18.0	19.02	36.41	26.11	191.7	.35	.03	1521.4	4.1
21.0	19.02	36.41	26.11	191.8	.40	.04	1521.4	4.1
24.0	19.02	36.41	26.11	191.8	.46	.06	1521.5	4.1
27.0	19.02	36.41	26.12	191.9	.52	.07	1521.5	4.1
30.0	19.02	36.41	26.12	192.0	.58	.09	1521.6	4.1
33.0	19.03	36.41	26.12	192.0	.64	.11	1521.6	4.1
36.0	19.03	36.42	26.12	192.1	.69	.13	1521.7	4.1
39.0	19.03	36.42	26.12	192.2	.75	.15	1521.7	4.1
42.0	19.03	36.42	26.12	192.2	.81	.17	1521.8	4.1
45.0	19.03	36.42	26.12	192.3	.87	.20	1521.8	0.0
48.0	18.93	36.35	26.09	195.0	.92	.23	1521.5	50.8
51.0	18.33	36.35	26.24	180.6	.98	.26	1519.9	60.9
54.0	18.13	36.32	26.27	178.1	1.04	.29	1519.3	40.1
57.0	17.68	36.24	26.32	173.3	1.09	.32	1518.0	35.4
60.0	17.64	36.24	26.33	172.5	1.14	.35	1517.9	14.8
63.0	17.64	36.24	26.33	172.5	1.19	.38	1518.0	0.0
65.0	17.64	36.21	26.31	174.7	1.23	.40	1518.0	0.0



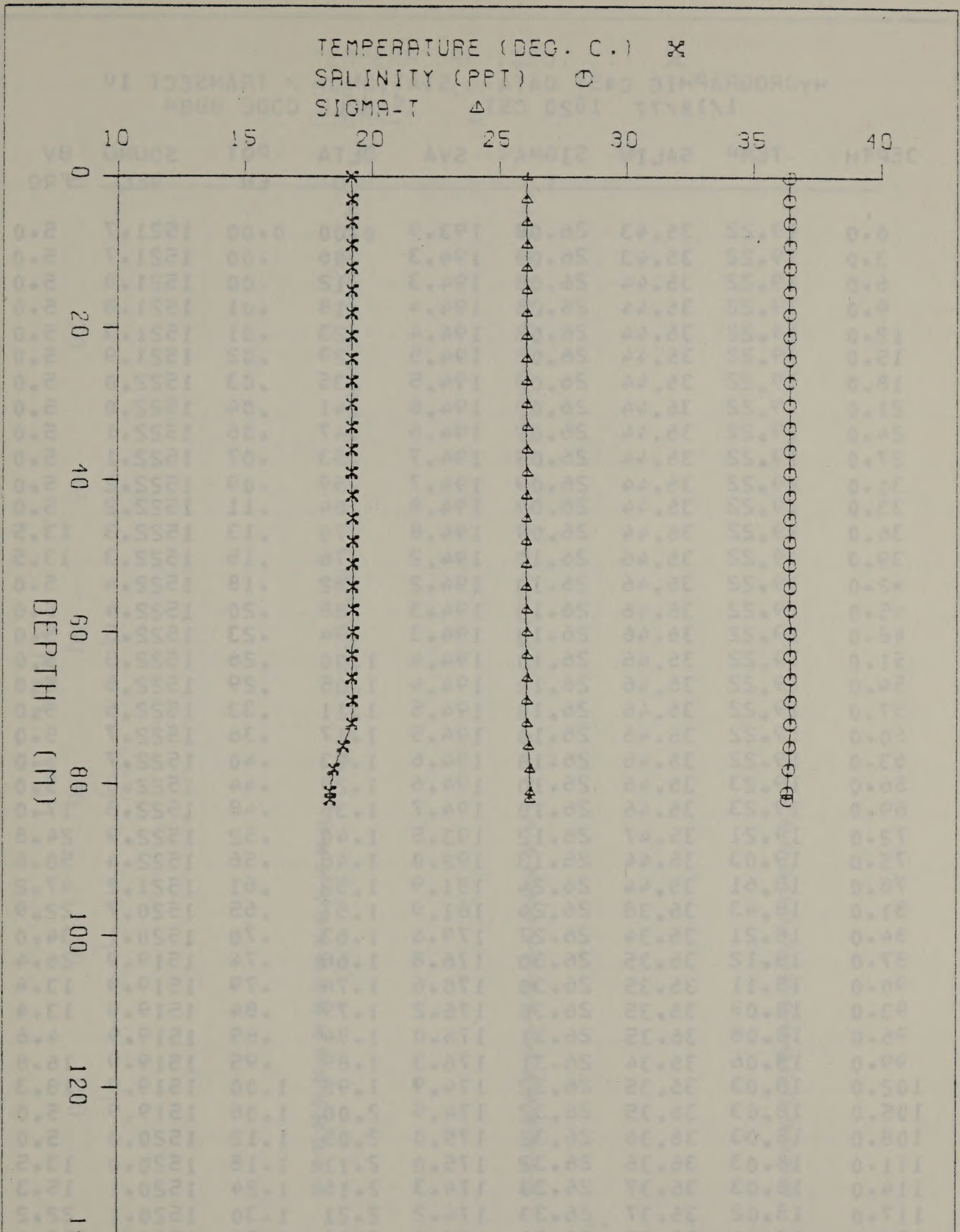
STATION 2 / TRANSECT IV 1 /18/77 900 CST



STATION 6 / TRANSECT IV 1 /18/77 910 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT IV
1/18/77 1050 CST SAMPLE CODE BAZK

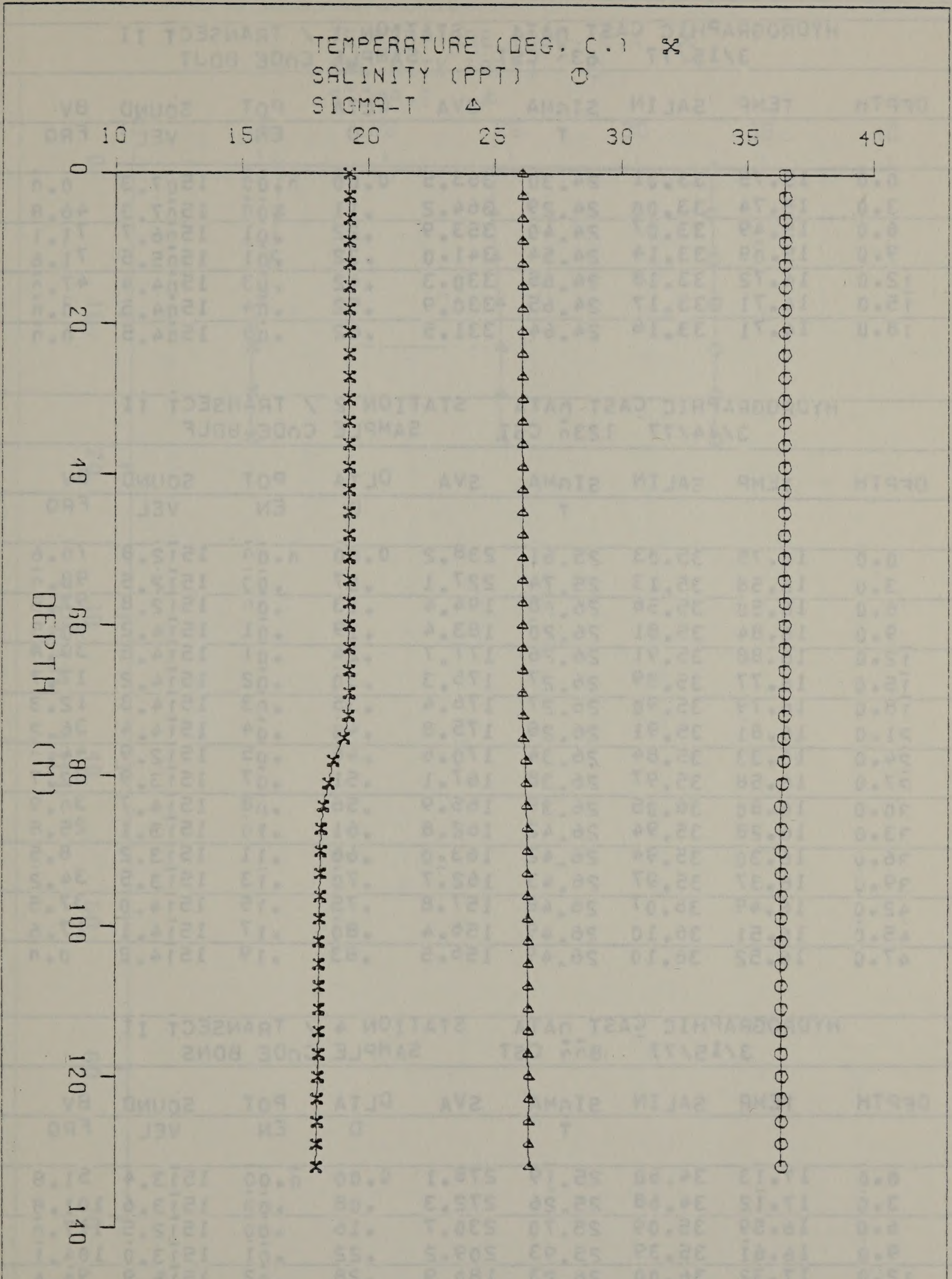
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	19.16	36.40	26.07	195.2	0.00	0.00	1521.5	0.0
3.0	19.18	36.40	26.06	195.9	.06	.00	1521.6	0.0
6.0	19.18	36.40	26.07	195.9	.12	.00	1521.6	8.3
9.0	19.18	36.40	26.07	195.8	.18	.01	1521.7	8.3
12.0	19.18	36.41	26.07	195.8	.24	.01	1521.7	8.3
15.0	19.19	36.41	26.07	195.7	.29	.02	1521.8	8.3
18.0	19.19	36.41	26.07	195.7	.35	.03	1521.8	8.3
21.0	19.19	36.41	26.07	195.6	.41	.04	1521.9	8.3
24.0	19.19	36.42	26.08	195.6	.47	.06	1522.0	8.3
27.0	19.19	36.42	26.08	195.5	.53	.07	1522.0	8.3
30.0	19.19	36.42	26.08	195.5	.59	.09	1522.1	8.3
33.0	19.19	36.42	26.08	195.4	.65	.11	1522.1	8.3
36.0	19.19	36.43	26.08	195.4	.71	.13	1522.2	8.3
39.0	19.19	36.43	26.08	195.3	.77	.15	1522.2	0.0
42.0	19.22	36.42	26.07	196.5	.82	.18	1522.3	0.0
45.0	19.23	36.42	26.07	196.7	.88	.20	1522.4	0.0
48.0	19.24	36.43	26.07	196.9	.94	.23	1522.5	3.9
51.0	19.24	36.43	26.07	196.9	1.00	.26	1522.6	8.3
54.0	19.24	36.43	26.07	196.8	1.06	.29	1522.6	15.0
57.0	19.24	36.44	26.08	196.0	1.12	.33	1522.7	15.0
60.0	19.24	36.45	26.08	196.0	1.18	.36	1522.7	13.2
63.0	19.22	36.45	26.09	195.4	1.24	.40	1522.7	16.8
66.0	19.20	36.45	26.10	194.9	1.30	.44	1522.7	0.0
69.0	19.23	35.44	26.09	196.1	1.36	.48	1522.8	0.0
72.0	19.21	36.45	26.09	195.5	1.42	.52	1522.8	39.5
75.0	18.86	36.42	26.16	189.1	1.47	.57	1521.9	51.0
78.0	18.49	35.37	26.22	183.7	1.53	.61	1520.8	36.3
81.0	18.35	36.34	26.23	183.1	1.58	.66	1520.4	0.0
82.0	18.35	36.32	26.21	184.6	1.60	.67	1520.4	0.0



STATION 3 / TRANSECT IV 1/18/77 1050 CST

HYDROGRAPHIC CAST DATA   STATION 7 / TRANSECT IV
1/18/77 1020 CST   SAMPLE CODE BBBM

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	19.22	36.43	26.08	193.9	0.00	0.00	1521.7	5.0
3.0	19.22	36.43	26.08	194.3	.06	.00	1521.7	5.0
6.0	19.22	36.44	26.08	194.3	.12	.00	1521.8	5.0
9.0	19.22	36.44	26.08	194.4	.18	.01	1521.8	5.0
12.0	19.22	36.44	26.08	194.4	.23	.01	1521.9	5.0
15.0	19.22	36.44	26.08	194.5	.29	.02	1521.9	5.0
18.0	19.22	36.44	26.08	194.5	.35	.03	1522.0	5.0
21.0	19.22	36.44	26.08	194.6	.41	.04	1522.0	5.0
24.0	19.22	36.44	26.09	194.6	.47	.06	1522.1	5.0
27.0	19.22	36.44	26.09	194.7	.53	.07	1522.1	5.0
30.0	19.22	36.44	26.09	194.7	.59	.09	1522.2	5.0
33.0	19.22	36.44	26.09	194.8	.64	.11	1522.2	5.0
36.0	19.22	36.44	26.09	194.8	.70	.13	1522.3	13.5
39.0	19.22	36.46	26.10	194.2	.76	.15	1522.3	13.5
42.0	19.22	36.46	26.10	194.2	.82	.18	1522.4	5.0
45.0	19.22	36.46	26.10	194.3	.88	.20	1522.4	5.0
48.0	19.22	36.46	26.10	194.3	.94	.23	1522.5	5.0
51.0	19.22	36.46	26.10	194.4	1.00	.26	1522.5	5.0
54.0	19.22	36.46	26.10	194.4	1.05	.29	1522.6	5.0
57.0	19.22	36.46	26.10	194.5	1.11	.33	1522.6	5.0
60.0	19.22	36.46	26.10	194.5	1.17	.36	1522.7	5.0
63.0	19.22	36.46	26.10	194.6	1.23	.40	1522.7	5.0
66.0	19.23	36.46	26.10	194.6	1.29	.44	1522.8	5.0
69.0	19.23	36.46	26.10	194.7	1.35	.48	1522.8	17.0
72.0	19.21	36.47	26.12	193.5	1.40	.52	1522.9	24.8
75.0	19.03	36.44	26.13	192.0	1.46	.56	1522.4	50.6
78.0	18.61	36.44	26.24	181.9	1.52	.61	1521.2	47.2
81.0	18.43	36.38	26.24	181.9	1.57	.65	1520.7	22.9
84.0	18.21	36.34	26.27	179.6	1.63	.70	1520.1	34.0
87.0	18.12	36.35	26.30	176.8	1.68	.74	1519.9	26.4
90.0	18.11	36.35	26.30	176.6	1.74	.79	1519.9	13.4
93.0	18.09	36.35	26.30	176.2	1.79	.84	1519.9	13.4
96.0	18.08	36.35	26.31	176.0	1.84	.89	1519.9	4.6
99.0	18.06	36.34	26.31	176.3	1.89	.95	1519.9	16.8
102.0	18.03	36.35	26.32	174.9	1.95	1.00	1519.9	18.3
105.0	18.03	36.35	26.32	174.9	2.00	1.06	1519.9	5.0
108.0	18.03	36.36	26.32	175.0	2.05	1.12	1520.0	5.0
111.0	18.03	36.36	26.32	175.0	2.11	1.18	1520.0	13.5
114.0	18.03	36.37	26.33	174.3	2.16	1.24	1520.1	15.3
117.0	18.02	36.37	26.33	174.2	2.21	1.30	1520.1	22.2
120.0	18.00	36.39	26.36	172.3	2.26	1.36	1520.1	25.4
123.0	17.96	36.39	26.37	171.4	2.31	1.43	1520.1	8.5
126.0	17.96	36.38	26.36	172.2	2.37	1.49	1520.1	0.0
129.0	17.94	36.38	26.36	171.7	2.42	1.56	1520.1	13.3
132.0	17.93	36.38	26.37	171.5	2.47	1.63	1520.1	11.3



STATION 7 / TRANSECT IV 1 /18/77 1020 CST

HYDROGRAPHIC CAST DATA   STATION 1 / TRANSECT II
3/15/77   630 CST   SAMPLE CODE BDJT

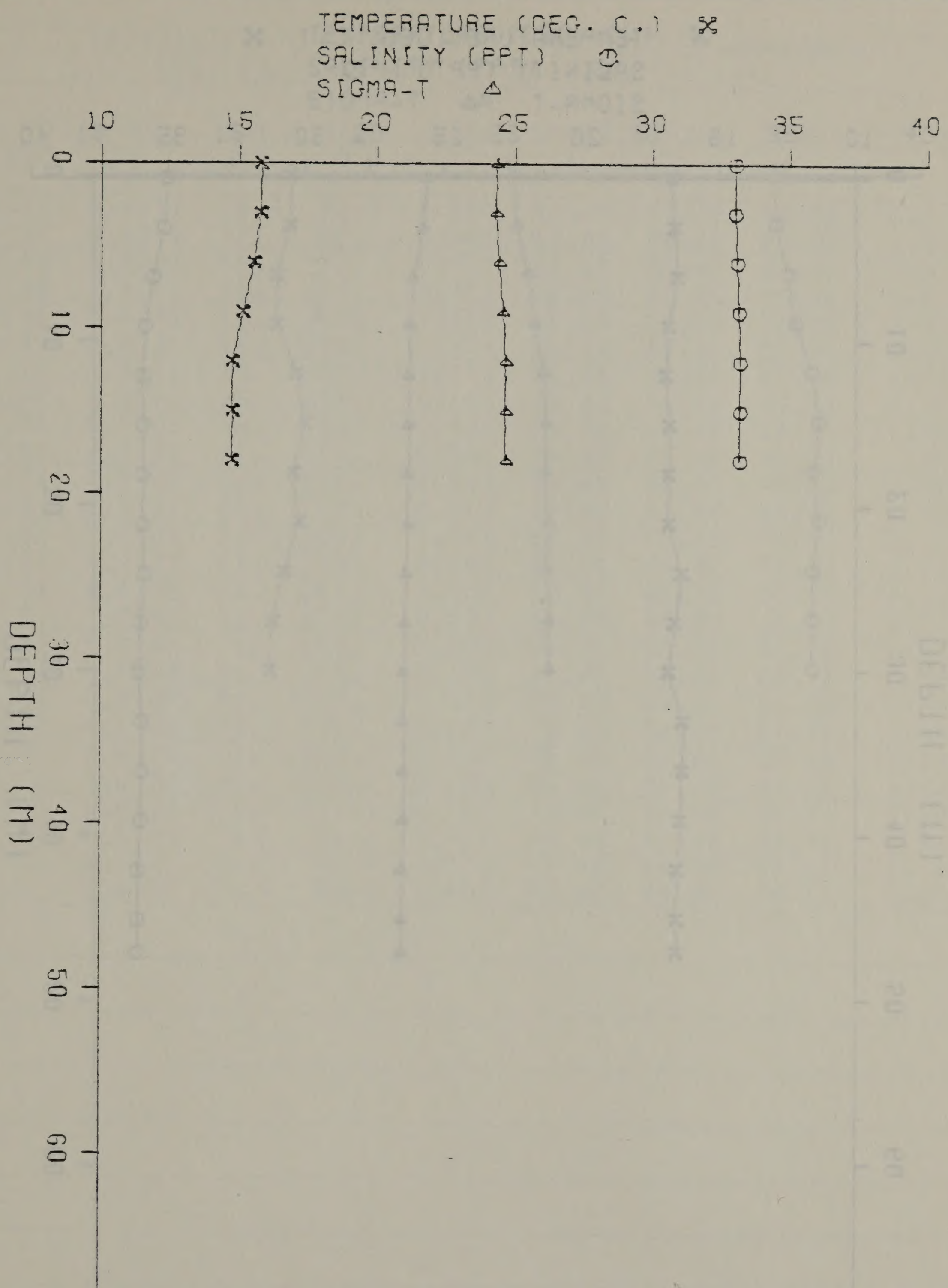
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	15.75	33.01	24.30	363.5	0.00	0.00	1507.3	0.0
3.0	15.74	33.00	24.29	364.2	.11	.00	1507.3	46.8
6.0	15.49	33.07	24.40	353.9	.22	.01	1506.7	71.1
9.0	15.09	33.14	24.54	341.0	.32	.01	1505.5	71.6
12.0	14.72	33.18	24.65	330.3	.42	.03	1504.4	47.0
15.0	14.71	33.17	24.65	330.9	.52	.04	1504.5	0.0
18.0	14.71	33.16	24.64	331.5	.62	.06	1504.5	0.0

HYDROGRAPHIC CAST DATA   STATION 2 / TRANSECT II
3/14/77   1230 CST   SAMPLE CODE BDLF

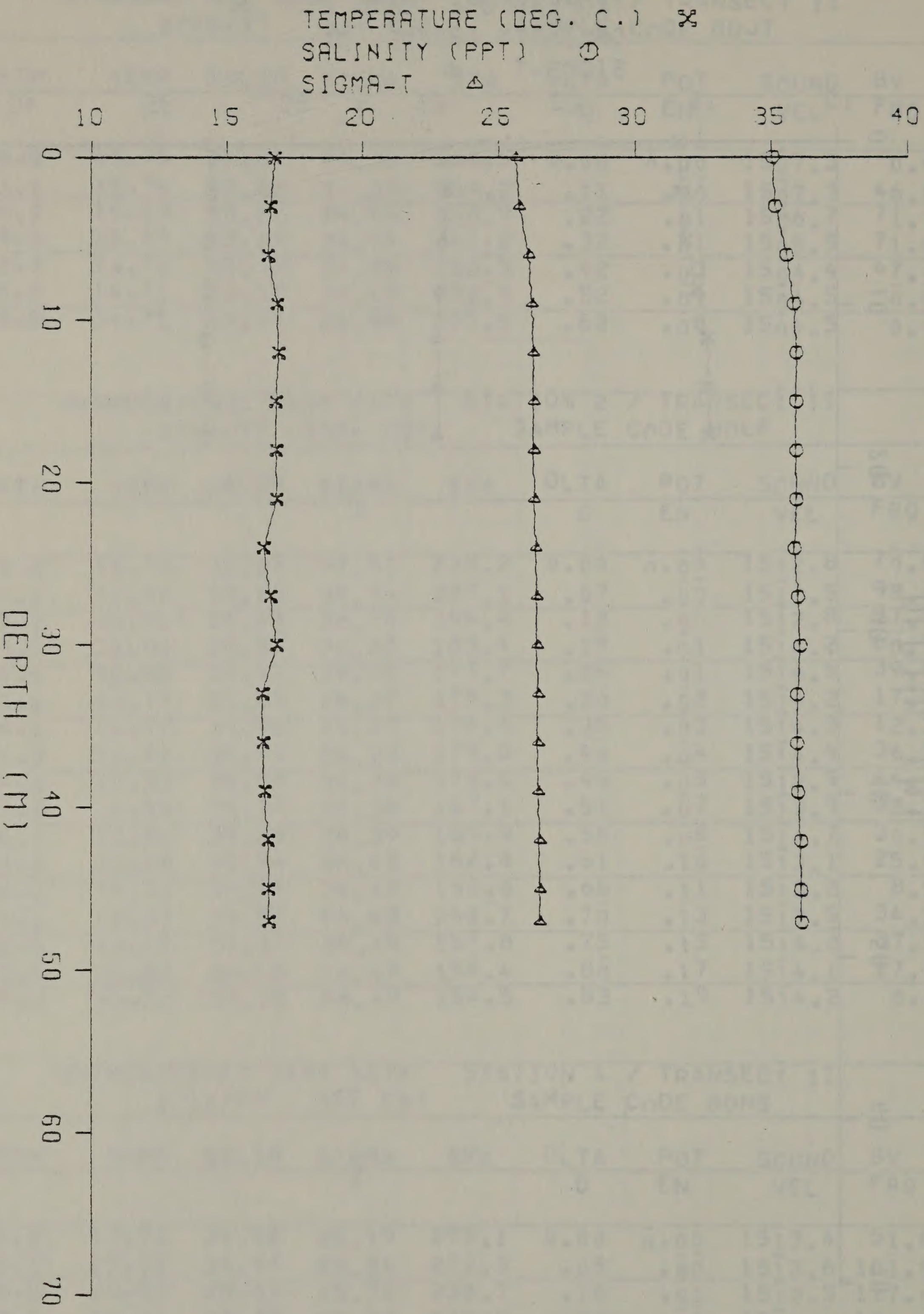
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	16.75	35.03	25.61	238.2	0.00	0.00	1512.8	70.6
3.0	16.58	35.13	25.74	227.1	.07	.00	1512.5	98.0
6.0	16.50	35.56	26.08	194.4	.13	.00	1512.8	97.5
9.0	16.84	35.81	26.20	183.4	.19	.01	1514.2	60.5
12.0	16.88	35.91	26.26	177.7	.24	.01	1514.5	39.8
15.0	16.77	35.89	26.27	176.3	.30	.02	1514.2	17.7
18.0	16.79	35.90	26.27	176.4	.35	.03	1514.3	12.3
21.0	16.81	35.91	26.28	175.8	.40	.04	1514.4	36.2
24.0	16.33	35.84	26.34	170.6	.46	.05	1512.9	44.0
27.0	16.58	35.97	26.38	167.1	.51	.07	1513.9	32.7
30.0	16.80	36.05	26.39	165.9	.56	.08	1514.7	30.9
33.0	16.28	35.94	26.42	162.8	.61	.10	1513.1	25.8
36.0	16.30	35.94	26.42	163.0	.66	.11	1513.2	8.5
39.0	16.37	35.97	26.43	162.7	.70	.13	1513.5	34.2
42.0	16.49	36.07	26.48	157.8	.75	.15	1514.0	37.5
45.0	16.51	36.10	26.49	156.4	.80	.17	1514.1	17.6
47.0	16.52	36.10	26.49	156.5	.83	.19	1514.2	0.0

HYDROGRAPHIC CAST DATA   STATION 4 / TRANSECT II
3/15/77   800 CST   SAMPLE CODE BDNS

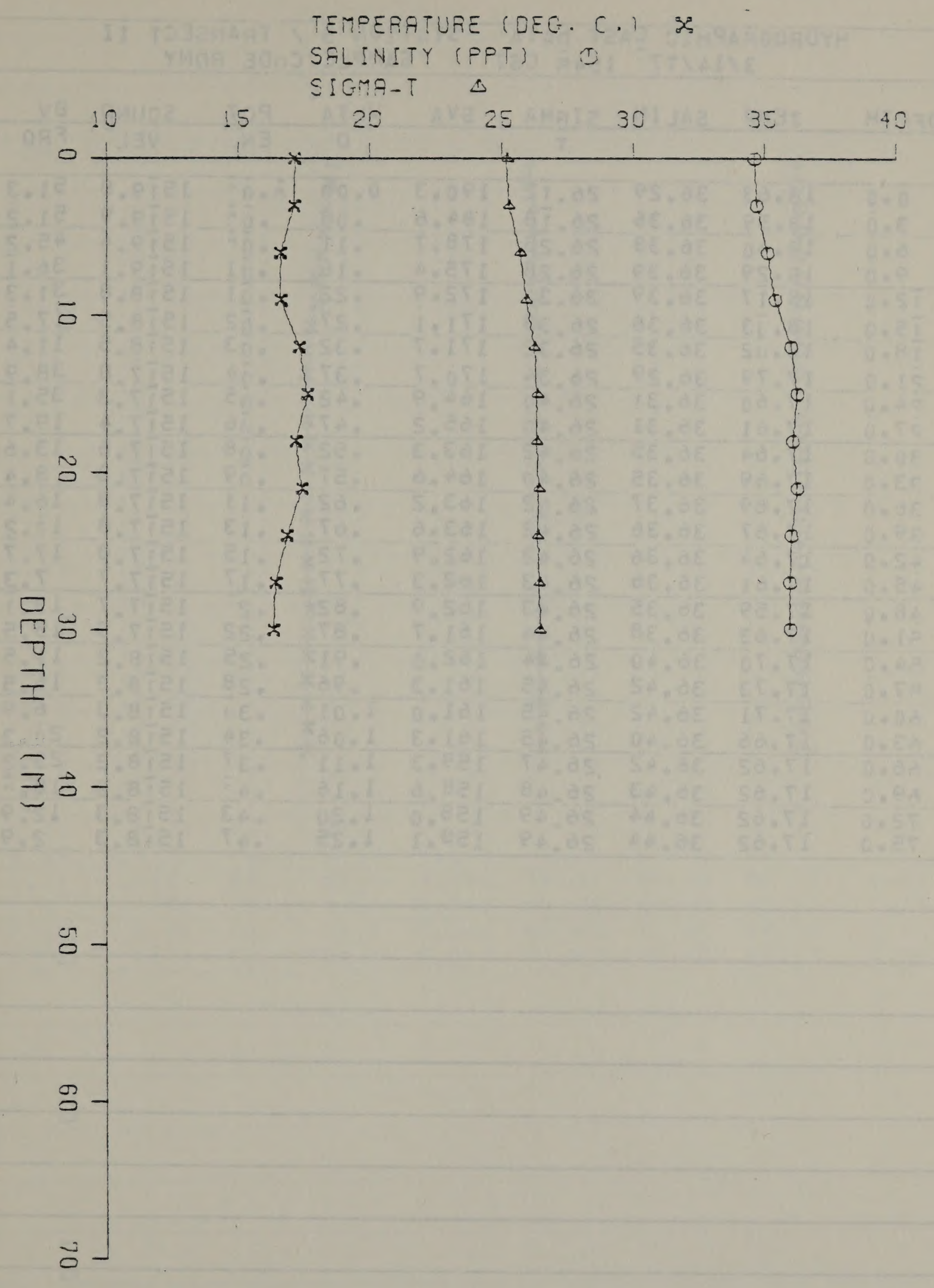
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	17.13	34.60	25.19	278.1	0.00	0.00	1513.4	51.8
3.0	17.12	34.68	25.26	272.3	.08	.00	1513.6	101.8
6.0	16.59	35.09	25.70	230.7	.16	.00	1512.5	117.0
9.0	16.61	35.39	25.93	209.2	.22	.01	1513.0	104.1
12.0	17.32	36.00	26.23	180.9	.28	.02	1515.9	90.4
15.0	17.62	36.22	26.32	171.8	.34	.02	1517.1	41.3
18.0	17.17	36.06	26.31	173.2	.39	.03	1515.6	35.7
21.0	17.40	36.23	26.38	166.1	.44	.04	1516.6	27.2
24.0	16.84	36.00	26.34	170.0	.49	.05	1514.7	19.8
27.0	16.39	35.94	26.40	164.5	.54	.07	1513.3	41.2
30.0	16.33	35.96	26.43	162.3	.59	.08	1513.2	30.9



STATION 1 / TRANSECT II 3 /15/77 630 CST



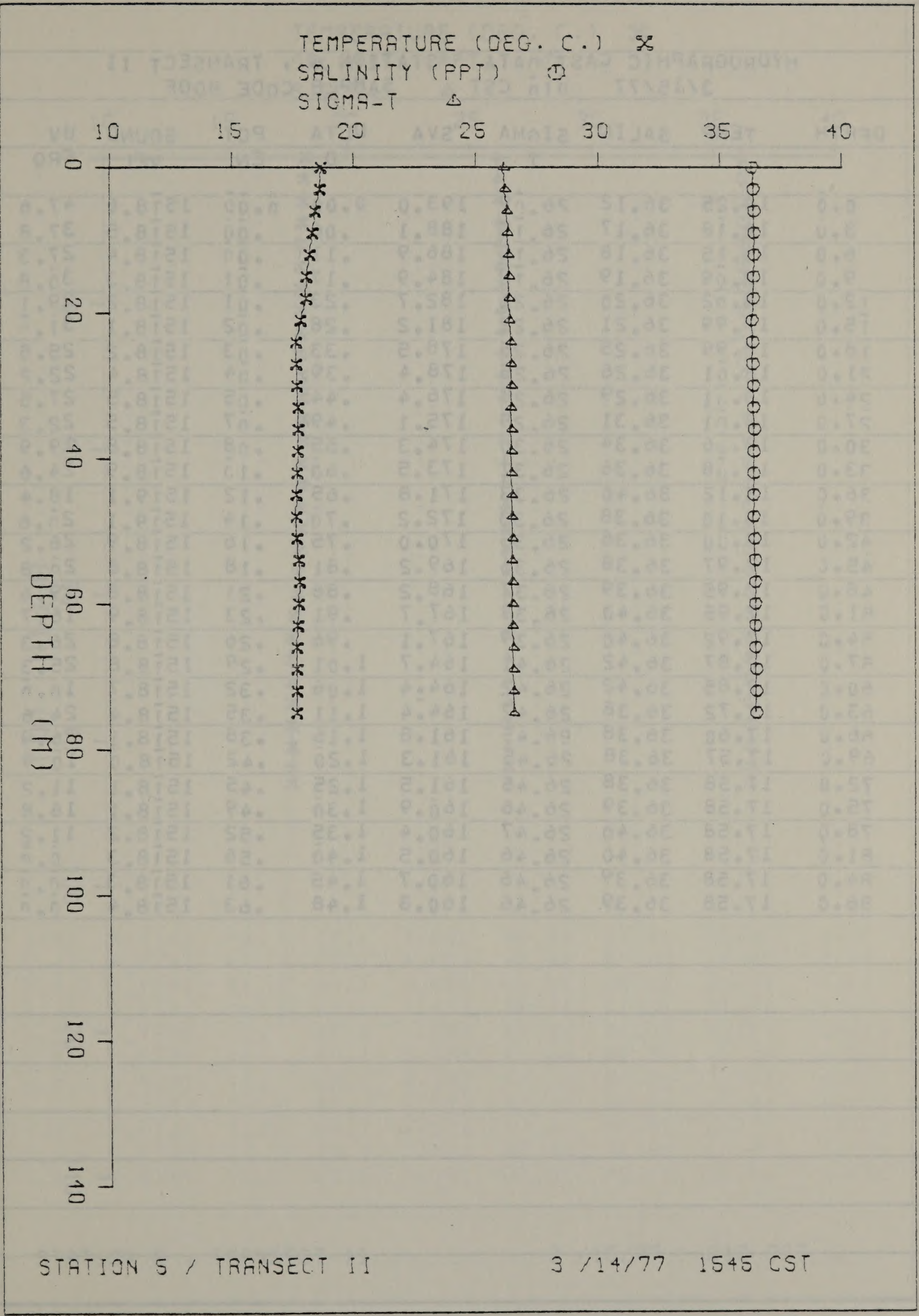
STATION 2 / TRANSECT II 3 /14/77 1230 CST



STATION 4 / TRANSECT II 3 /15/77 800 CST

HYDROGRAPHIC CAST DATA   STATION 5 / TRANSECT II
3/14/77 1545 CST   SAMPLE CODE BDNY

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.63	36.29	26.12	190.3	0.00	0.00	1519.8	51.3
3.0	18.59	36.36	26.18	184.6	.06	.00	1519.9	51.2
6.0	18.40	36.38	26.25	178.7	.11	.00	1519.4	45.2
9.0	18.29	36.39	26.28	175.4	.16	.01	1519.1	36.1
12.0	18.17	36.39	26.31	172.9	.22	.01	1518.8	31.3
15.0	18.03	36.36	26.33	171.1	.27	.02	1518.5	17.5
18.0	18.02	36.35	26.32	171.7	.32	.03	1518.5	11.4
21.0	17.79	36.29	26.34	170.7	.37	.04	1517.8	38.9
24.0	17.60	36.31	26.40	164.9	.42	.05	1517.3	35.1
27.0	17.61	36.31	26.40	165.2	.47	.06	1517.4	19.7
30.0	17.64	36.35	26.42	163.3	.52	.08	1517.6	13.6
33.0	17.69	36.35	26.40	164.6	.57	.09	1517.8	8.4
36.0	17.69	36.37	26.42	163.2	.62	.11	1517.8	16.4
39.0	17.67	36.36	26.42	163.6	.67	.13	1517.8	10.2
42.0	17.64	36.36	26.42	162.9	.72	.15	1517.8	17.7
45.0	17.61	36.36	26.43	162.3	.77	.17	1517.7	7.3
48.0	17.59	36.35	26.43	162.9	.82	.20	1517.7	13.1
51.0	17.63	36.38	26.44	161.7	.87	.22	1517.9	15.5
54.0	17.70	36.40	26.44	162.0	.91	.25	1518.2	11.5
57.0	17.73	36.42	26.45	161.3	.96	.28	1518.3	16.5
60.0	17.71	36.42	26.45	161.0	1.01	.30	1518.3	6.9
63.0	17.66	36.40	26.45	161.3	1.06	.34	1518.2	20.3
66.0	17.62	36.42	26.47	159.3	1.11	.37	1518.2	25.2
69.0	17.62	36.43	26.48	158.6	1.16	.40	1518.2	18.[illegible]
72.0	17.62	36.44	26.49	158.0	1.20	.43	1518.3	12.9
75.0	17.62	36.44	26.49	158.1	1.25	.47	1518.3	2.9

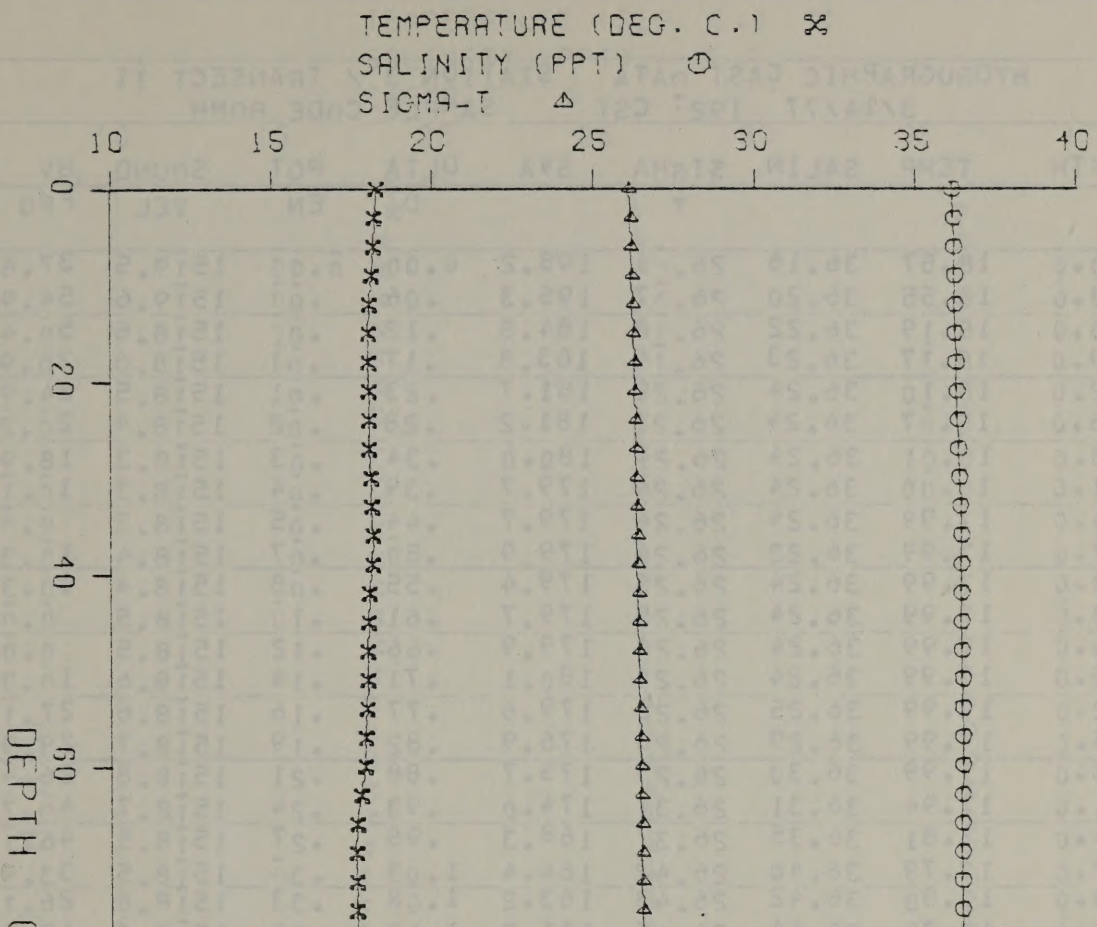


STATION 5 / TRANSECT II

3 /14/77 1545 CST

HYDROGRAPHIC CAST DATA STATION 6 , TRANSECT II
3/15/77 010 CST SAMPLE CODE BDOF

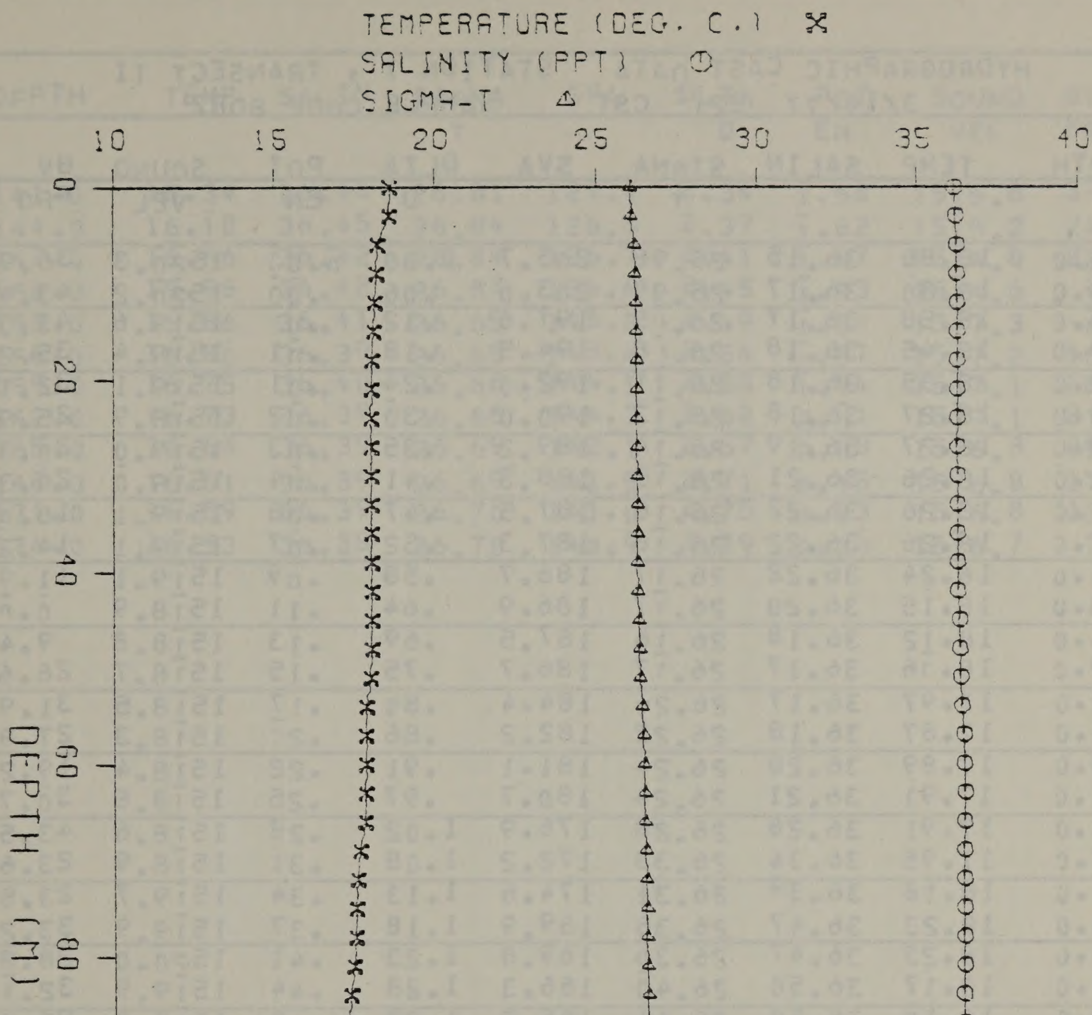
DFPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.25	36.12	26.09	193.0	0.00	0.00	1518.6	47.6
3.0	18.18	36.17	26.15	188.1	.06	.00	1518.5	37.8
6.0	18.15	36.18	26.16	186.9	.11	.00	1518.4	27.3
9.0	18.09	36.19	26.18	184.9	.17	.01	1518.3	30.8
12.0	18.02	36.20	26.21	182.7	.23	.01	1518.2	29.1
15.0	17.99	36.21	26.22	181.2	.28	.02	1518.1	31.0
18.0	17.99	36.25	26.25	178.5	.33	.03	1518.2	25.5
21.0	18.01	36.26	26.25	178.4	.39	.04	1518.4	22.2
24.0	18.01	36.29	26.28	176.4	.44	.05	1518.5	27.5
27.0	18.01	36.31	26.29	175.1	.49	.07	1518.5	22.3
30.0	18.06	36.34	26.30	174.3	.55	.08	1518.8	19.9
33.0	18.08	36.36	26.31	173.5	.60	.10	1518.9	24.6
36.0	18.12	36.40	26.33	171.8	.65	.12	1519.1	18.4
39.0	18.10	36.38	26.33	172.2	.70	.14	1519.1	20.6
42.0	18.00	36.38	26.35	170.0	.75	.16	1518.9	26.2
45.0	17.97	36.38	26.36	169.2	.81	.18	1518.8	20.8
48.0	17.95	36.39	26.37	168.2	.86	.21	1518.8	19.6
51.0	17.95	36.40	26.38	167.7	.91	.23	1518.9	16.7
54.0	17.92	36.40	26.39	167.1	.96	.26	1518.8	26.3
57.0	17.87	36.42	26.41	164.7	1.01	.29	1518.8	25.3
60.0	17.85	36.42	26.42	164.4	1.06	.32	1518.7	10.0
63.0	17.72	36.38	26.42	164.4	1.11	.35	1518.4	24.6
66.0	17.60	36.38	26.45	161.8	1.16	.38	1518.1	26.9
69.0	17.57	36.38	26.45	161.3	1.20	.42	1518.0	10.9
72.0	17.58	36.38	26.45	161.5	1.25	.45	1518.1	11.2
75.0	17.58	36.39	26.46	160.9	1.30	.49	1518.1	16.8
78.0	17.58	36.40	26.47	160.4	1.35	.52	1518.2	11.2
81.0	17.58	36.40	26.46	160.5	1.40	.56	1518.3	0.0
84.0	17.58	36.39	26.46	160.7	1.45	.61	1518.3	0.0
86.0	17.58	36.39	26.46	160.8	1.48	.63	1518.4	0.0



STATION 6 , TRANSECT II 3 /15/77 010 CST

HYDROGRAPHIC CAST DATA   STATION 3 / TRANSECT II
3/14/77 192[illegible] CST   SAMPLE CODE BDMM

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.57	36.16	26.04	198.2	0.00	0.00	1519.5	37.6
3.0	18.55	36.20	26.07	195.3	.06	.00	1519.6	54.9
6.0	18.19	36.22	26.18	184.8	.12	.00	1518.6	50.4
9.0	18.17	36.23	26.19	183.8	.17	.01	1518.6	26.9
12.0	18.10	36.24	26.22	181.7	.23	.01	1518.5	24.9
15.0	18.07	36.24	26.22	181.2	.28	.02	1518.4	20.2
18.0	18.01	36.24	26.24	180.0	.34	.03	1518.3	18.9
21.0	18.00	36.24	26.24	179.7	.39	.04	1518.3	10.1
24.0	17.99	36.24	26.24	179.7	.44	.05	1518.3	0.0
27.0	17.99	36.23	26.24	179.9	.50	.07	1518.4	10.3
30.0	17.99	36.24	26.25	179.4	.55	.08	1518.4	10.3
33.0	17.99	36.24	26.25	179.7	.61	.10	1518.5	0.0
36.0	17.99	36.24	26.24	179.9	.66	.12	1518.5	0.0
39.0	17.99	36.24	26.24	180.1	.71	.14	1518.6	10.3
42.0	17.99	36.25	26.25	179.6	.77	.16	1518.6	27.1
45.0	17.99	36.29	26.28	176.9	.82	.19	1518.7	29.9
48.0	17.99	36.30	26.29	175.7	.88	.21	1518.8	26.0
51.0	17.94	36.31	26.31	174.0	.93	.24	1518.7	40.7
54.0	17.81	36.35	26.37	168.3	.98	.27	1518.5	46.1
57.0	17.79	36.40	26.42	164.4	1.03	.30	1518.5	33.9
60.0	17.80	36.42	26.43	163.2	1.08	.33	1518.6	26.1
63.0	17.78	36.44	26.45	161.5	1.13	.36	1518.6	17.6
66.0	17.76	36.43	26.44	162.0	1.18	.39	1518.6	23.3
69.0	17.60	36.41	26.47	159.2	1.23	.42	1518.1	31.7
72.0	17.52	36.41	26.49	157.5	1.27	.46	1518.0	23.5
75.0	17.48	36.41	26.51	156.8	1.32	.49	1517.9	15.8
78.0	17.46	36.41	26.51	156.6	1.37	.53	1517.9	18.7
81.0	17.40	36.41	26.52	155.4	1.41	.57	1517.8	24.3
84.0	17.30	36.40	26.53	154.0	1.46	.61	1517.5	19.5
87.0	17.25	36.39	26.54	153.8	1.51	.65	1517.4	13.7
90.0	17.22	36.38	26.54	153.4	1.55	.69	1517.4	12.1
93.0	17.21	36.38	26.54	153.4	1.60	.73	1517.4	14.3
96.0	17.20	36.39	26.55	152.6	1.65	.78	1517.4	0.0
99.0	17.19	36.37	26.54	154.1	1.69	.82	1517.4	0.0
102.0	17.08	36.35	26.55	153.0	1.74	.87	1517.1	20.6
105.0	17.04	36.35	26.56	152.3	1.78	.92	1517.0	17.1
108.0	17.01	36.35	26.57	151.8	1.83	.97	1517.0	9.8
111.0	17.01	36.34	26.56	152.0	1.88	1.02	1517.0	0.0
114.0	17.00	36.34	26.57	152.0	1.92	1.08	1517.0	0.0
117.0	17.00	36.34	26.56	152.3	1.97	1.13	1517.1	0.0
119.0	17.00	36.34	26.56	152.4	2.00	1.17	1517.1	0.0

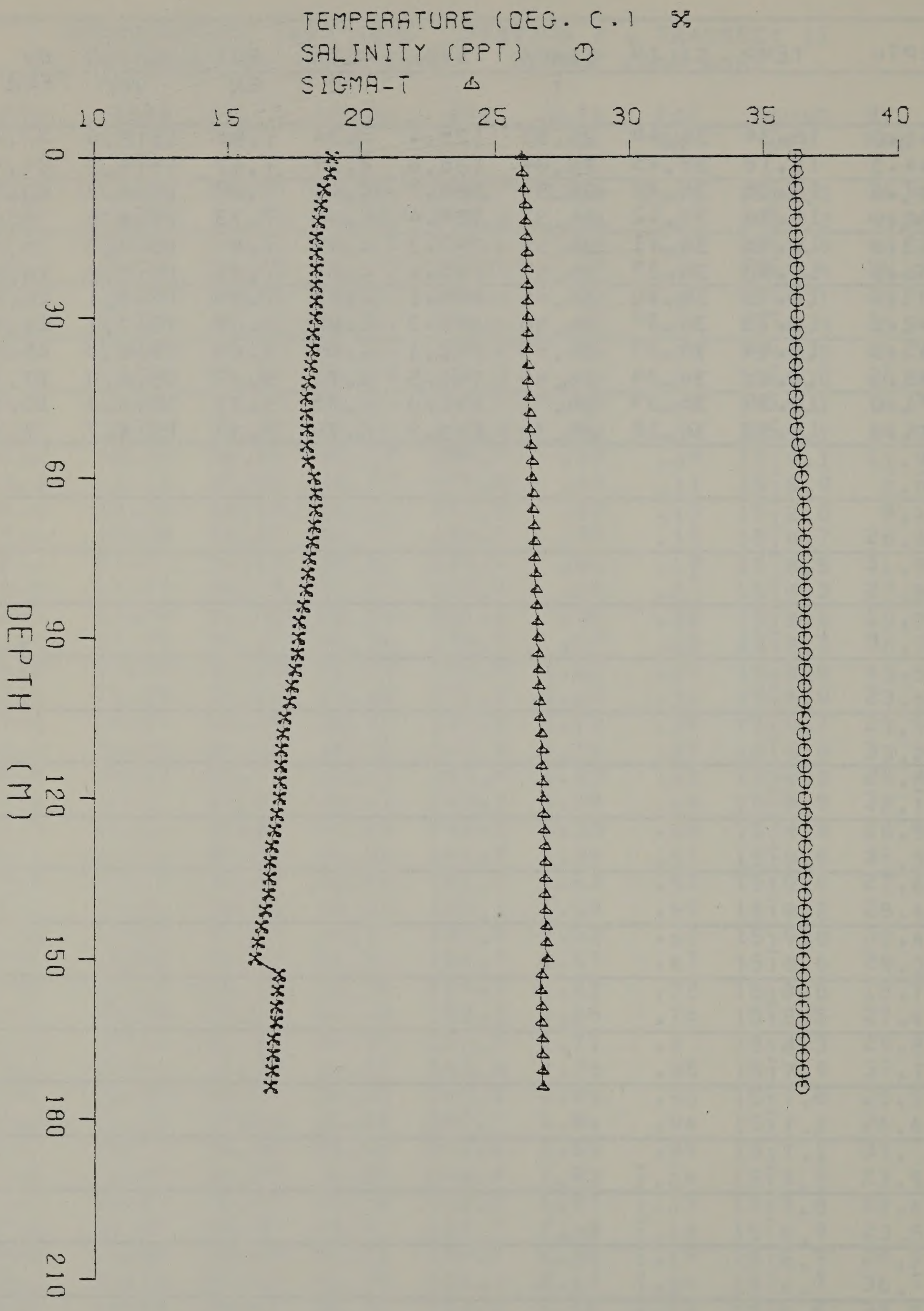


STATION 3 / TRANSECT II 3 /14/77 1920 CST

HYDROGRAPHIC CAST DATA   STATION 7 , TRANSECT II
3/14/77 2210 CST   SAMPLE CODE BDRZ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	18.86	36.15	25.96	205.7	0.00	0.00	1520.3	36.9
3.0	18.80	36.17	25.99	203.0	.06	.00	1520.2	43.4
6.0	18.58	36.17	26.05	197.6	.12	.00	1519.6	43.3
9.0	18.45	36.18	26.08	194.5	.18	.01	1519.4	35.2
12.0	18.35	36.18	26.11	192.0	.24	.01	1519.1	32.1
15.0	18.27	36.18	26.13	190.0	.30	.02	1518.9	25.9
18.0	18.27	36.19	26.14	189.2	.35	.03	1519.0	20.3
21.0	18.26	36.21	26.15	188.3	.41	.04	1519.0	20.3
24.0	18.26	36.22	26.16	187.5	.47	.06	1519.1	16.0
27.0	18.26	36.22	26.16	187.3	.52	.07	1519.1	14.2
30.0	18.24	36.22	26.17	186.7	.58	.09	1519.1	11.9
33.0	18.15	36.20	26.17	186.9	.64	.11	1518.9	0.0
36.0	18.12	36.18	26.16	187.5	.69	.13	1518.8	9.4
39.0	18.06	36.17	26.17	186.7	.75	.15	1518.7	26.6
42.0	17.97	36.17	26.20	184.4	.80	.17	1518.5	31.9
45.0	17.87	36.18	26.22	182.2	.86	.20	1518.3	27.8
48.0	17.89	36.20	26.24	181.1	.91	.22	1518.4	19.2
51.0	17.91	36.21	26.24	180.7	.97	.25	1518.5	30.7
54.0	17.91	36.26	26.28	176.9	1.02	.28	1518.6	43.5
57.0	17.95	36.34	26.33	172.2	1.08	.31	1518.9	23.6
60.0	18.18	36.39	26.31	174.6	1.13	.34	1519.7	23.5
63.0	18.23	36.47	26.36	169.9	1.18	.37	1519.9	33.2
66.0	18.23	36.47	26.36	169.8	1.23	.41	1520.0	28.8
69.0	18.17	36.50	26.40	166.3	1.28	.44	1519.9	32.1
72.0	18.10	36.50	26.41	165.2	1.33	.48	1519.8	28.5
75.0	18.00	36.50	26.44	162.7	1.38	.51	1519.5	30.3
78.0	17.94	36.50	26.46	161.2	1.43	.55	1519.4	27.6
81.0	17.86	36.50	26.48	159.4	1.48	.59	1519.2	28.4
84.0	17.76	36.50	26.50	157.6	1.52	.63	1519.0	32.4
87.0	17.61	36.49	26.53	154.7	1.57	.67	1518.6	28.3
90.0	17.59	36.49	26.54	154.1	1.62	.72	1518.6	18.7
93.0	17.56	36.49	26.55	153.3	1.66	.76	1518.5	27.4
96.0	17.45	36.50	26.57	150.8	1.71	.80	1518.3	29.8
99.0	17.33	36.48	26.59	149.4	1.76	.85	1517.9	30.7
102.0	17.25	36.49	26.62	146.7	1.80	.90	1517.8	23.5
105.0	17.08	36.43	26.62	147.0	1.84	.94	1517.2	26.6
108.0	16.99	36.46	26.65	143.6	1.89	.99	1517.1	37.0
111.0	16.94	36.48	26.68	140.9	1.93	1.04	1517.0	23.5
114.0	16.93	36.47	26.68	141.2	1.97	1.09	1517.0	22.4
117.0	16.89	36.49	26.71	138.7	2.02	1.14	1516.9	23.5
120.0	16.86	36.48	26.71	138.9	2.06	1.19	1516.9	28.2
123.0	16.77	36.51	26.75	135.3	2.10	1.24	1516.7	36.0
126.0	16.68	36.51	26.77	133.1	2.14	1.29	1516.5	29.5
129.0	16.58	36.50	26.79	131.4	2.18	1.34	1516.2	25.9
132.0	16.52	36.50	26.80	130.2	2.22	1.40	1516.1	22.1
135.0	16.49	36.51	26.81	129.4	2.26	1.45	1516.1	0.0
138.0	16.46	36.48	26.80	130.8	2.30	1.50	1516.0	5.8

DEPTH	TEMP	SALIN	SIGMA T	SVA	ULTA D	POT EN	SOUND VEL	BV FRQ
141.0	16.34	36.46	26.81	129.4	2.34	1.56	1515.6	30.4
144.0	16.18	36.45	26.84	126.6	2.37	1.62	1515.2	24.5
147.0	16.06	36.42	26.84	126.7	2.41	1.67	1514.8	22.7
150.0	15.96	36.42	26.87	124.4	2.45	1.73	1514.6	0.0
153.0	16.86	36.41	26.65	145.2	2.49	1.80	1517.3	0.0
156.0	16.80	36.39	26.65	145.4	2.54	1.87	1517.2	16.5
159.0	16.75	36.40	26.66	144.1	2.58	1.94	1517.1	16.8
162.0	16.73	36.39	26.66	144.3	2.62	2.01	1517.1	21.8
165.0	16.64	36.39	26.69	142.1	2.67	2.08	1516.8	25.2
168.0	16.61	36.39	26.69	141.5	2.71	2.15	1516.8	17.1
171.0	16.59	36.39	26.70	141.0	2.75	2.23	1516.8	13.1
174.0	16.53	36.38	26.70	140.9	2.79	2.30	1516.7	7.0



STATION 7 , TRANSECT II 3 /14/77 2210 CST

HYDROGRAPHIC CAST DATA   STATION 1 / TRANSECT II
4/21/77   700 CST   SAMPLE CODE 8GNA

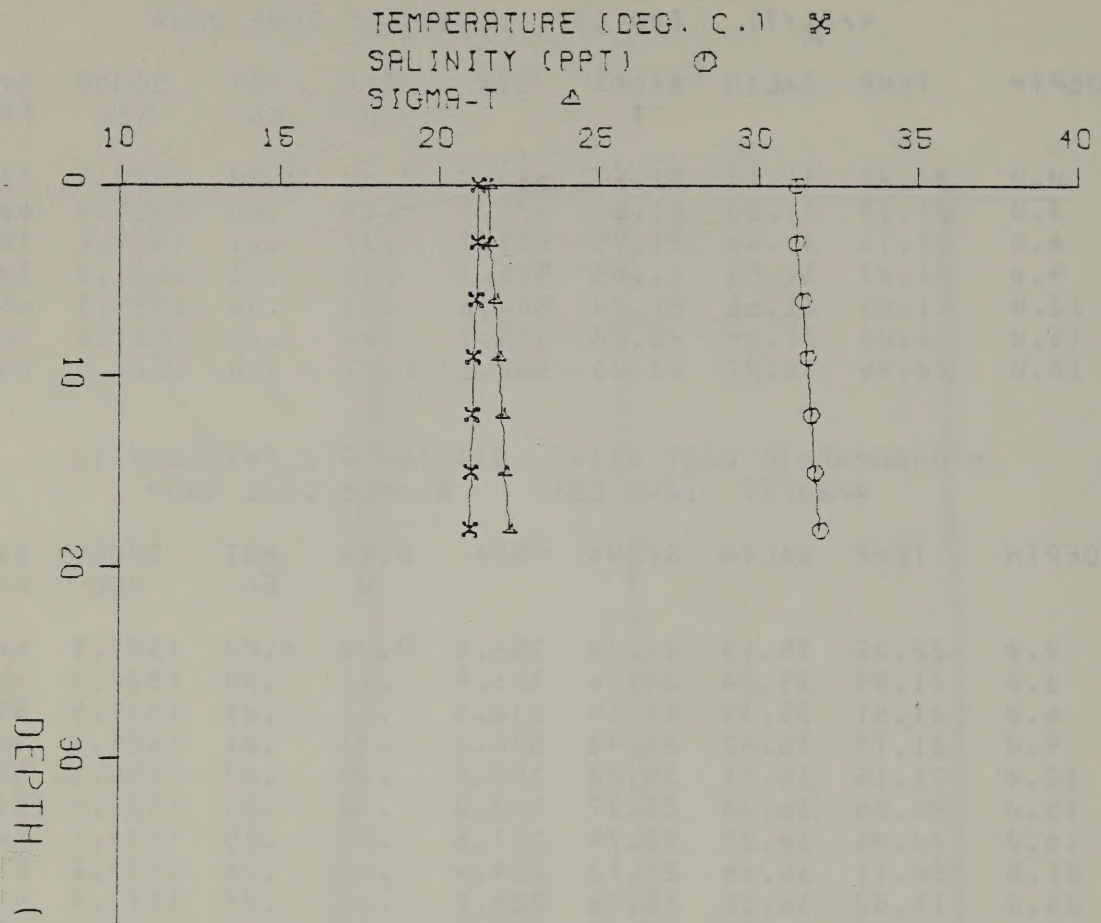
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.20	31.18	21.57	624.4	0.00	0.00	1520.9	23.5
3.0	21.19	31.20	21.58	623.4	.19	.00	1521.0	60.8
6.0	21.15	31.40	21.75	607.7	.37	.01	1521.2	78.2
9.0	21.07	31.55	21.88	595.3	.55	.03	1521.2	70.9
12.0	21.03	31.68	21.99	584.6	.73	.04	1521.3	65.4
15.0	21.00	31.80	22.08	575.7	.90	.07	1521.4	70.0
18.0	20.96	31.97	22.23	562.1	1.07	.10	1521.5	76.8

HYDROGRAPHIC CAST DATA   STATION 2 / TRANSECT II
4/20/77   1245 CST   SAMPLE CODE 8GOH

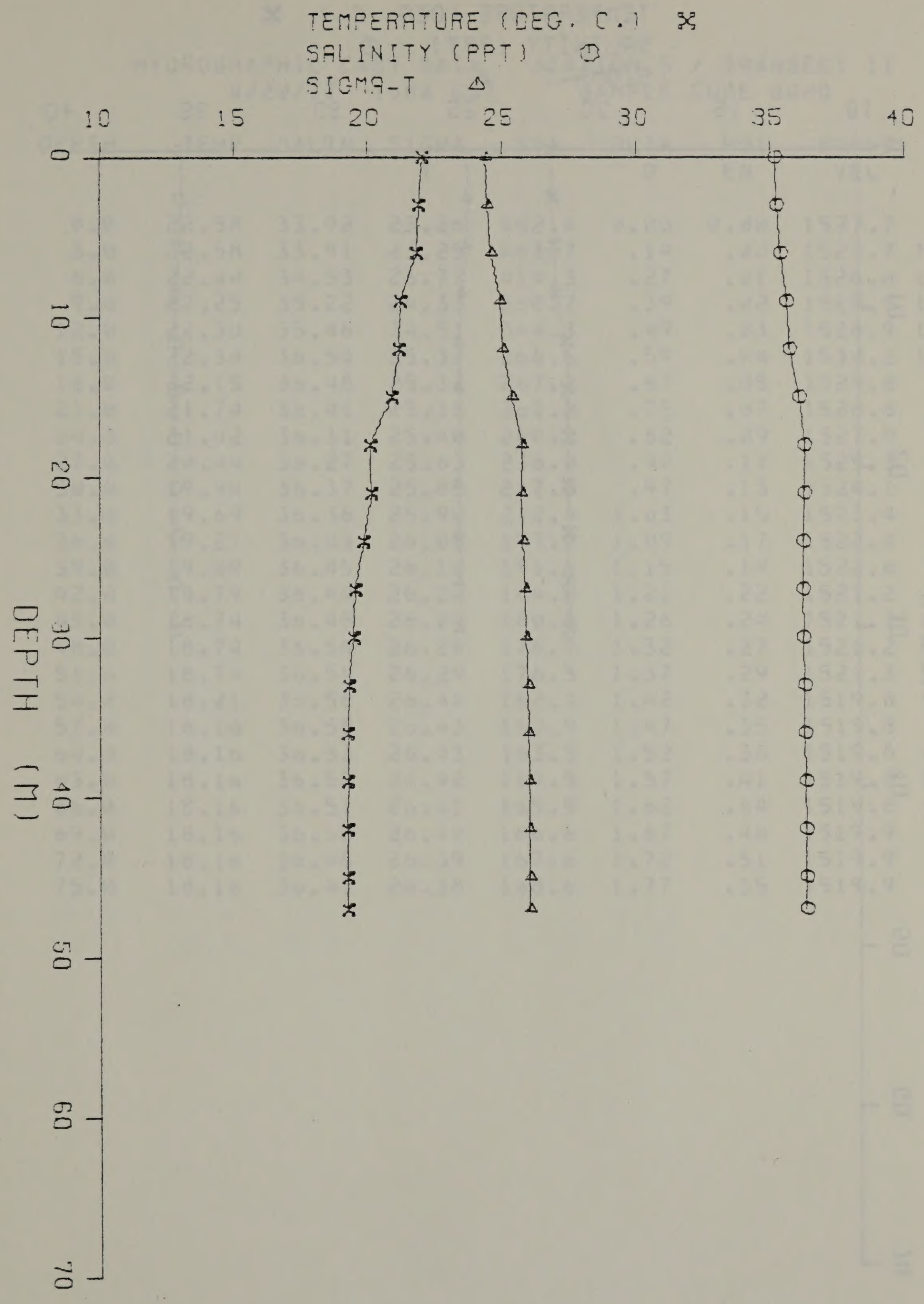
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	22.02	35.19	24.38	356.0	0.00	0.00	1527.7	56.6
3.0	21.89	35.24	24.46	348.9	.11	.00	1527.5	65.8
6.0	21.81	35.39	24.59	336.5	.21	.01	1527.5	99.3
9.0	21.19	35.62	24.93	303.6	.31	.01	1526.2	94.1
12.0	21.15	35.71	25.02	295.8	.40	.02	1526.3	95.1
15.0	20.86	36.08	25.37	262.0	.48	.03	1526.0	121.7
18.0	20.06	36.27	25.74	227.6	.55	.05	1524.1	84.4
21.0	20.11	36.26	25.72	229.4	.62	.06	1524.2	23.7
24.0	19.80	36.22	25.76	225.2	.69	.08	1523.4	48.5
27.0	19.49	36.20	25.83	218.7	.76	.09	1522.6	45.1
30.0	19.42	36.22	25.86	216.0	.82	.11	1522.5	45.3
33.0	19.25	36.25	25.93	209.4	.89	.13	1522.1	44.1
36.0	19.20	36.26	25.96	207.3	.95	.16	1522.0	29.6
39.0	19.20	36.29	25.98	205.6	1.01	.18	1522.1	24.8
42.0	19.19	36.30	25.99	204.7	1.07	.21	1522.1	21.3
45.0	19.19	36.32	26.00	203.7	1.13	.23	1522.2	21.3
47.0	19.19	36.32	26.00	203.1	1.18	.25	1522.2	21.3

HYDROGRAPHIC CAST DATA   STATION ~~2~~ 4 / TRANSECT II
4/21/77   1130 CST   SAMPLE CODE 8GQW

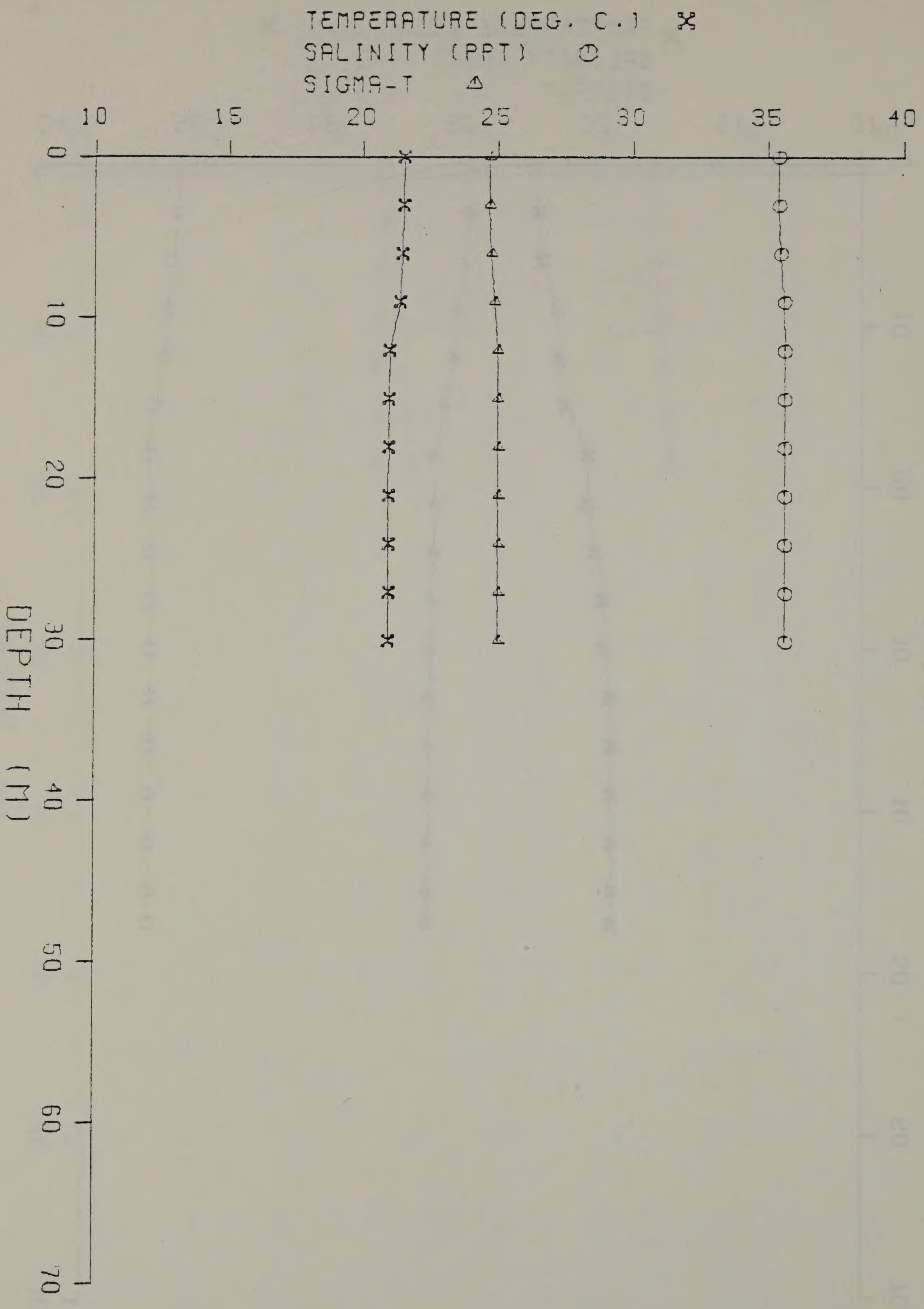
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	21.51	35.39	24.67	327.9	0.00	0.00	1526.6	9.9
3.0	21.50	35.39	24.67	328.1	.10	.00	1526.7	36.3
6.0	21.45	35.45	24.74	322.3	.20	.01	1526.6	64.2
9.0	21.36	35.60	24.87	309.2	.29	.01	1526.6	72.1
12.0	20.98	35.61	24.99	298.5	.38	.02	1525.7	50.7
15.0	20.94	35.62	25.00	297.6	.47	.04	1525.6	16.3
18.0	20.94	35.62	25.00	297.5	.56	.05	1525.7	9.8
21.0	20.93	35.62	25.00	297.4	.65	.07	1525.7	9.8
24.0	20.93	35.62	25.01	297.3	.74	.09	1525.7	9.8
27.0	20.92	35.62	25.01	297.2	.83	.11	1525.8	9.8
30.0	20.92	35.62	25.01	297.0	.92	.14	1525.8	9.8



STATION 1 / TRANSECT II 4 /21/77 700 CST



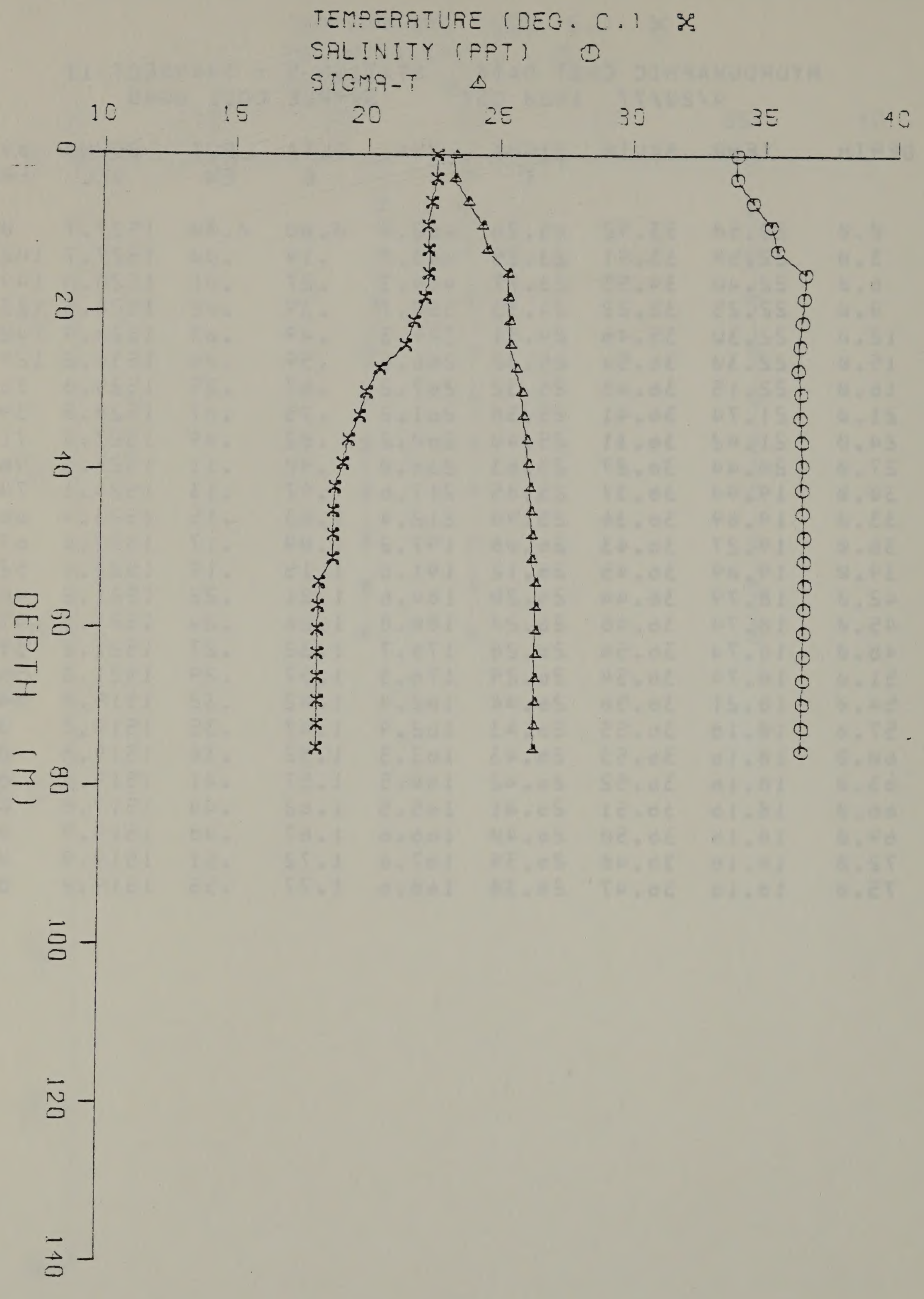
STATION 2 / TRANSECT II 4 /20/77 1245 CST



STATION 4 / TRANSECT II 4 /21/77 1130 CST

HYDROGRAPHIC CAST DATA   STATION 5 / TRANSECT II
4/20/77   1600 CST   SAMPLE CODE BGRD

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	22.58	33.92	23.26	462.4	0.00	0.00	1527.7	0.0
3.0	22.58	33.91	23.25	463.7	.14	.00	1527.7	102.5
6.0	22.40	34.53	23.77	414.3	.27	.01	1528.0	149.4
9.0	22.25	35.22	24.33	360.7	.39	.02	1528.5	123.2
12.0	22.30	35.46	24.51	344.3	.49	.03	1528.9	142.9
15.0	22.30	36.54	25.32	266.6	.59	.04	1530.2	129.4
18.0	22.15	36.48	25.32	267.2	.67	.05	1529.8	35.1
21.0	21.74	36.41	25.38	261.2	.75	.07	1528.8	39.6
24.0	21.42	36.31	25.40	260.2	.82	.09	1527.9	71.2
27.0	20.44	36.27	25.63	238.0	.90	.11	1525.3	96.3
30.0	19.94	36.37	25.85	217.6	.97	.13	1524.1	74.8
33.0	19.69	36.36	25.90	212.4	1.03	.15	1523.4	66.9
36.0	19.27	36.43	26.06	197.2	1.09	.17	1522.4	67.4
39.0	19.09	36.45	26.12	191.6	1.15	.19	1522.0	52.7
42.0	18.79	36.44	26.20	184.6	1.21	.22	1521.2	48.9
45.0	18.74	36.48	26.24	180.8	1.26	.24	1521.1	41.8
48.0	18.74	36.54	26.28	176.7	1.32	.27	1521.2	31.9
51.0	18.74	36.54	26.29	176.3	1.37	.29	1521.3	56.1
54.0	18.21	36.56	26.44	162.4	1.42	.32	1519.8	54.2
57.0	18.18	36.55	26.43	162.9	1.47	.35	1519.8	0.0
60.0	18.16	36.53	26.43	163.5	1.52	.38	1519.8	0.0
63.0	18.16	36.52	26.42	164.5	1.57	.41	1519.8	0.0
66.0	18.16	36.51	26.41	165.5	1.62	.44	1519.8	0.0
69.0	18.16	36.50	26.40	166.6	1.67	.48	1519.9	0.0
72.0	18.16	36.48	26.39	167.6	1.72	.51	1519.9	0.0
75.0	18.16	36.47	26.38	168.6	1.77	.55	1519.9	0.0



STATION 5 / TRANSECT II 4 /20/77 1600 CST

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          HYDROGRAPHIC CAST DATA   STATION 6 , TRANSECT II
                4/20/77  1710 CST     SAMPLE CODE BGRK

DEPTH     TEMP   SALIN   SIGMA    SVA    DLTA    POT    SOUND   BV
                           T               D      EN     VEL    FRQ

  0.0    22.59   34.35   23.58   432.2   0.00   0.00   1528.2   48.7
  3.0    22.45   34.37   23.64   427.1    .13    .00   1527.9   93.2
  6.0    22.12   34.73   24.00   392.5    .25    .01   1527.5  134.0
  9.0    22.08   35.38   24.51   344.3    .36    .02   1528.2  109.5
 12.0    22.13   35.50   24.58   337.3    .47    .03   1528.5   55.0
 15.0    22.10   35.58   24.65   330.6    .57    .04   1528.6   77.2
 18.0    22.13   35.88   24.87   310.0    .66    .06   1529.1   88.6
 21.0    22.15   36.10   25.03   294.5    .75    .08   1529.4   78.5
 24.0    22.23   36.31   25.17   281.8    .84    .10   1529.9   58.0
 27.0    21.95   36.24   25.20   279.2    .92    .12   1529.2   67.9
 30.0    21.24   36.24   25.39   260.7   1.01    .14   1527.4   81.2
 33.0    20.54   36.15   25.52   248.9   1.08    .17   1525.5   81.8
 36.0    20.07   36.25   25.72   230.0   1.15    .19   1524.4   81.1
 39.0    20.06   36.41   25.84   218.7   1.22    .22   1524.6   55.2
 42.0    20.06   36.44   25.87   216.1   1.29    .24   1524.7   44.3
 45.0    19.76   36.43   25.93   209.9   1.35    .27   1523.9   49.3
 48.0    19.47   36.39   25.98   205.1   1.41    .30   1523.1   38.0
 51.0    19.32   36.37   26.00   203.4   1.47    .33   1522.7   44.7
 54.0    18.97   36.35   26.08   196.1   1.53    .37   1521.8   50.1
 57.0    18.88   36.38   26.12   192.0   1.59    .40   1521.6   35.0
 60.0    18.80   36.37   26.14   190.6   1.65    .43   1521.4   41.2
 63.0    18.59   36.39   26.21   184.4   1.71    .47   1520.9   40.5
 66.0    18.58   36.40   26.22   183.3   1.76    .51   1520.9   30.9
 69.0    18.50   36.42   26.25   180.2   1.82    .54   1520.7   33.3
 72.0    18.43   36.42   26.27   178.4   1.87    .58   1520.6   46.8
 75.0    18.11   36.43   26.36   170.3   1.92    .62   1519.7   48.9
 78.0    18.00   36.44   26.39   167.5   1.97    .66   1519.5   38.8
 81.0    17.85   36.44   26.43   163.6   2.02    .70   1519.1   33.0
 83.0    17.83   36.44   26.44   163.0   2.06    .73   1519.1   20.7
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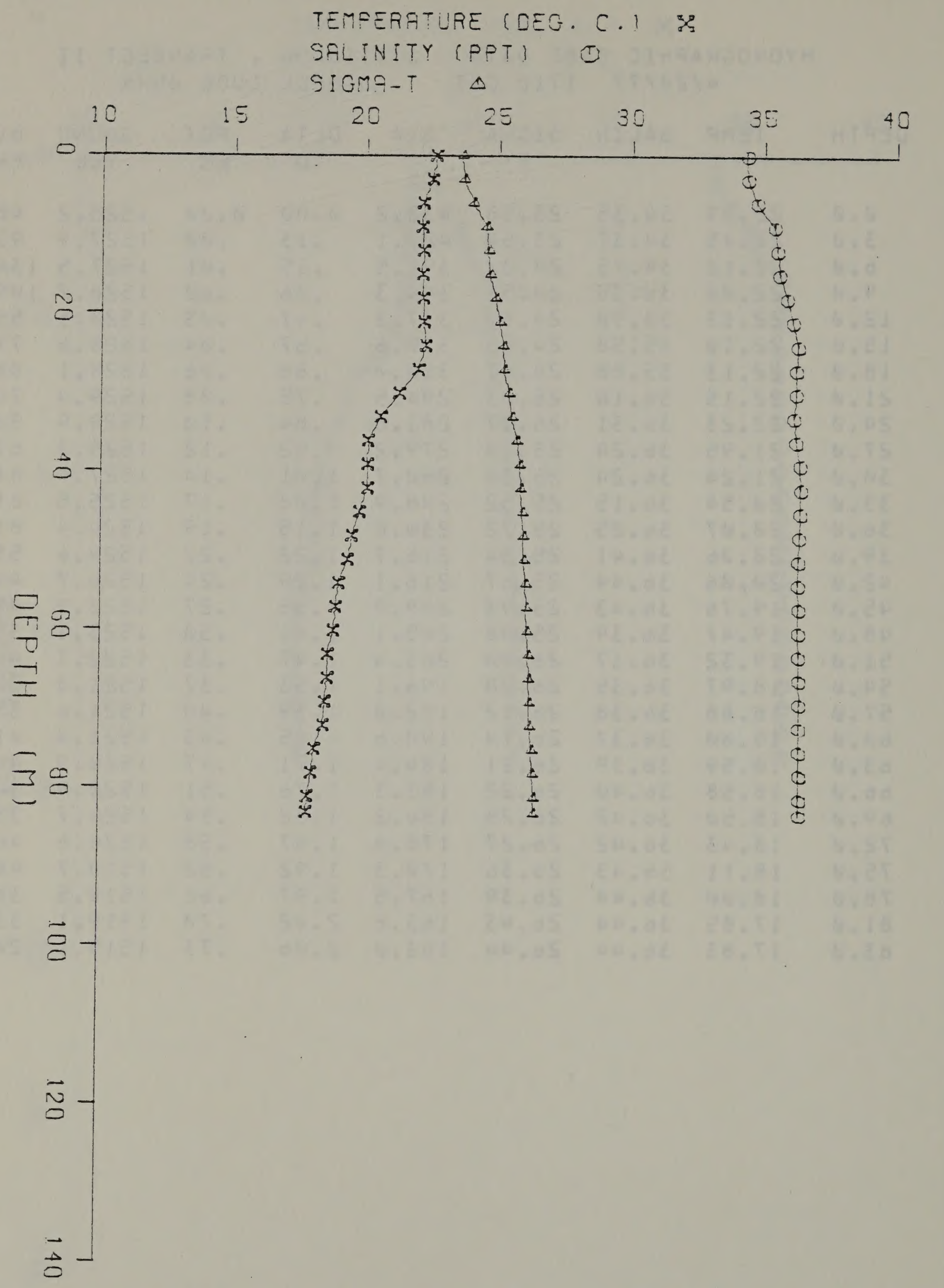
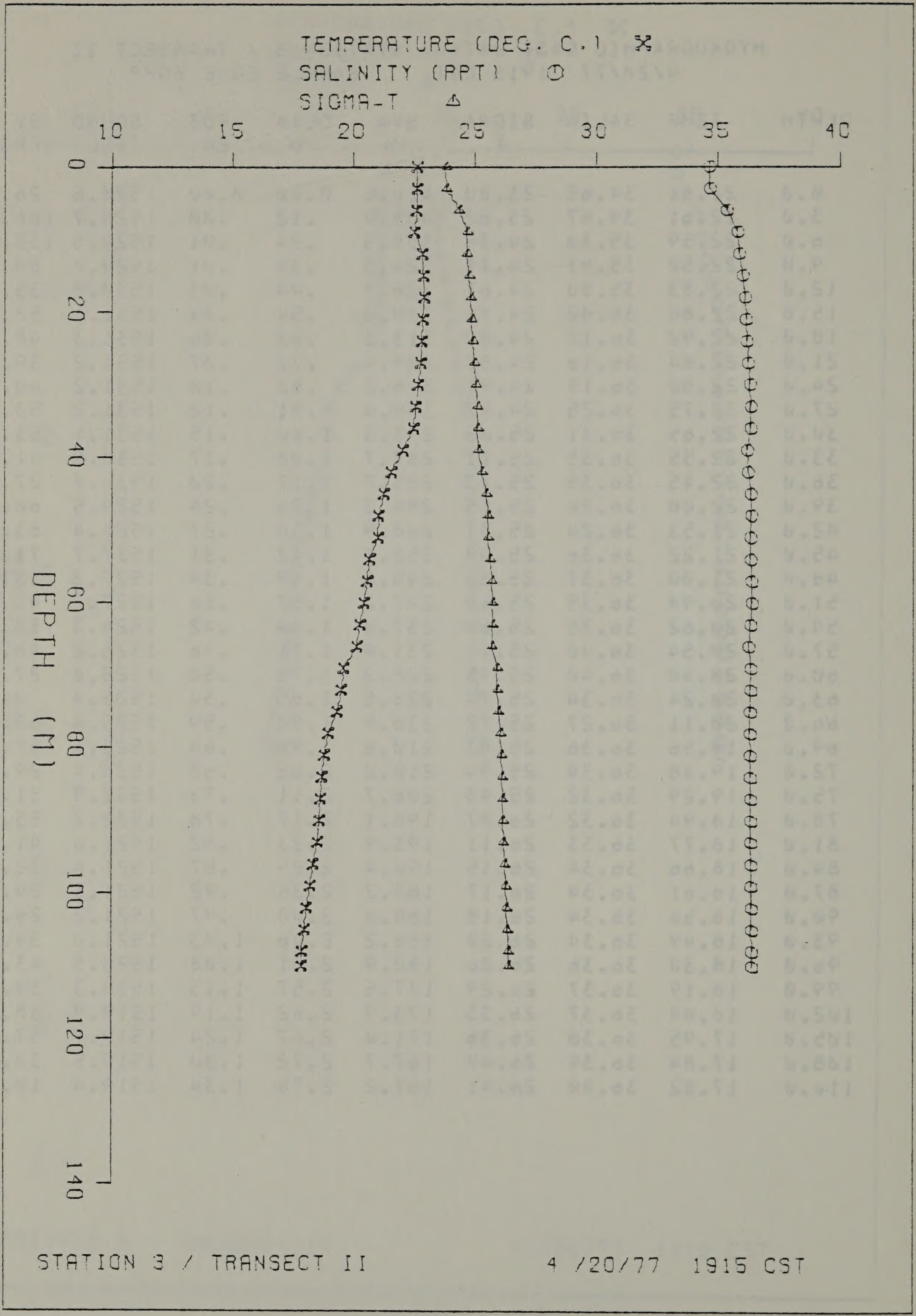


STATION 6 , TRANSECT II 4 /20/77 1710 CST

HYDROGRAPHIC CAST DATA   STATION 3 / TRANSECT II
4/20/77   1915 CST   SAMPLE CODE 8GPP

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	22.61	34.65	23.80	410.6	0.00	0.00	1528.6	26.2
3.0	22.61	34.67	23.82	409.4	.12	.00	1528.7	106.9
6.0	22.59	35.38	24.36	358.3	.24	.01	1529.5	135.5
9.0	22.50	35.81	24.71	324.8	.34	.01	1529.8	80.3
12.0	22.83	35.88	24.67	328.7	.44	.03	1530.8	33.1
15.0	22.88	36.02	24.76	320.0	.54	.04	1531.1	58.3
18.0	22.90	36.12	24.84	313.3	.63	.06	1531.3	48.3
21.0	22.84	36.16	24.88	309.4	.72	.07	1531.2	39.9
24.0	22.80	36.19	24.91	306.2	.82	.10	1531.2	44.7
27.0	22.75	36.25	24.97	300.4	.91	.12	1531.2	53.1
30.0	22.65	36.31	25.05	293.3	1.00	.15	1531.1	53.0
33.0	22.55	36.35	25.11	287.7	1.08	.17	1530.9	41.3
36.0	22.45	36.35	25.13	285.7	1.17	.20	1530.7	27.8
39.0	22.00	36.20	25.15	284.3	1.26	.24	1529.5	60.6
42.0	21.53	36.24	25.31	268.9	1.34	.27	1528.4	83.9
45.0	21.22	36.36	25.49	252.1	1.42	.31	1527.7	71.4
48.0	21.00	36.37	25.56	245.6	1.49	.34	1527.2	33.2
51.0	20.98	36.35	25.54	247.2	1.57	.38	1527.2	41.5
54.0	20.62	36.35	25.64	237.8	1.64	.42	1526.3	58.0
57.0	20.54	36.40	25.71	231.9	1.71	.46	1526.2	46.1
60.0	20.40	36.40	25.75	228.2	1.78	.50	1525.8	27.9
63.0	20.24	36.34	25.74	228.5	1.85	.54	1525.4	0.0
66.0	20.11	36.27	25.72	230.9	1.92	.59	1525.0	62.6
69.0	19.56	36.36	25.93	210.6	1.98	.64	1523.6	67.7
72.0	19.48	36.34	25.94	210.0	2.05	.68	1523.4	29.7
75.0	19.29	36.32	25.98	206.7	2.11	.73	1522.9	51.2
78.0	18.94	36.32	26.07	198.1	2.17	.78	1522.0	53.0
81.0	18.77	36.33	26.11	193.9	2.23	.82	1521.6	41.1
84.0	18.66	36.34	26.15	190.4	2.29	.87	1521.4	32.5
87.0	18.61	36.34	26.17	189.2	2.35	.92	1521.3	24.2
90.0	18.56	36.34	26.18	188.0	2.40	.97	1521.2	26.2
93.0	18.49	36.34	26.20	186.2	2.46	1.03	1521.0	39.6
96.0	18.30	36.36	26.26	180.9	2.51	1.08	1520.5	43.9
99.0	18.19	36.37	26.29	177.5	2.57	1.13	1520.3	39.5
102.0	18.04	36.37	26.33	173.9	2.62	1.19	1519.9	38.1
105.0	17.95	36.38	26.36	171.0	2.67	1.24	1519.7	37.4
108.0	17.84	36.39	26.40	167.7	2.72	1.30	1519.5	30.5
110.0	17.82	36.40	26.41	167.2	2.76	1.34	1519.4	19.2



STATION 3 / TRANSECT II 4 /20/77 1915 CST

HYDROGRAPHIC CAST DATA STATION 7 , TRANSECT II
4/20/77 2025 CST SAMPLE CODE BGRR

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	22.78	35.16	24.14	378.7	0.00	0.00	1529.6	60.5
3.0	22.79	35.28	24.23	370.6	.11	.00	1529.8	86.3
6.0	22.83	35.65	24.50	344.8	.22	.01	1530.4	89.6
9.0	22.90	35.84	24.62	333.8	.32	.01	1530.8	60.2
12.0	22.84	35.89	24.68	328.3	.42	.03	1530.8	52.3
15.0	22.77	35.96	24.75	321.4	.52	.04	1530.8	55.9
18.0	22.75	36.05	24.83	314.1	.61	.05	1530.8	55.9
21.0	22.68	36.13	24.90	307.2	.71	.07	1530.8	52.2
24.0	22.70	36.21	24.96	301.7	.80	.09	1531.0	43.7
27.0	22.69	36.25	24.99	298.6	.89	.12	1531.1	37.2
30.0	22.64	36.28	25.03	295.6	.98	.14	1531.0	29.6
33.0	22.61	36.28	25.04	294.8	1.07	.17	1531.0	45.7
36.0	22.38	36.31	25.13	286.1	1.16	.20	1530.5	74.6
39.0	21.67	36.28	25.31	269.3	1.24	.24	1528.7	70.5
42.0	21.40	36.27	25.37	263.4	1.32	.27	1528.0	50.6
45.0	21.21	36.28	25.43	257.7	1.40	.30	1527.6	47.3
48.0	21.16	36.32	25.48	253.3	1.47	.34	1527.6	40.5
51.0	21.13	36.35	25.51	250.3	1.55	.38	1527.6	41.6
54.0	20.98	36.37	25.56	245.5	1.62	.42	1527.2	49.4
57.0	20.74	36.37	25.63	239.3	1.70	.46	1526.7	54.6
60.0	20.49	36.38	25.71	231.9	1.77	.50	1526.0	57.9
63.0	20.18	36.39	25.79	224.0	1.84	.55	1525.3	51.4
66.0	19.97	36.37	25.84	219.9	1.90	.59	1524.7	43.0
69.0	19.80	36.37	25.88	215.7	1.97	.64	1524.3	39.5
72.0	19.66	36.36	25.91	212.9	2.03	.68	1524.0	52.4
75.0	19.16	36.33	26.01	203.2	2.10	.73	1522.6	62.8
78.0	18.85	36.34	26.10	194.9	2.16	.78	1521.8	48.6
81.0	18.85	36.37	26.13	192.5	2.21	.82	1521.9	33.8
84.0	18.74	36.38	26.16	189.8	2.27	.87	1521.6	42.0
87.0	18.59	36.40	26.22	184.5	2.33	.92	1521.3	49.4
90.0	18.38	36.41	26.28	178.7	2.38	.97	1520.8	41.3
93.0	18.31	36.41	26.30	176.8	2.44	1.02	1520.6	27.6
96.0	18.25	36.42	26.31	175.4	2.49	1.07	1520.5	31.2
99.0	18.20	36.44	26.35	172.6	2.54	1.13	1520.4	26.7
102.0	18.16	36.43	26.35	172.3	2.59	1.18	1520.3	18.5
105.0	18.09	36.43	26.36	171.2	2.65	1.23	1520.2	31.8
108.0	17.95	36.43	26.40	167.9	2.70	1.29	1519.8	40.9
111.0	17.78	36.43	26.44	163.6	2.75	1.35	1519.4	37.6
114.0	17.69	36.43	26.47	161.5	2.80	1.40	1519.2	28.3
117.0	17.64	36.44	26.48	160.1	2.84	1.46	1519.1	23.4
120.0	17.60	36.44	26.49	159.2	2.89	1.52	1519.0	23.3
123.0	17.55	36.44	26.51	157.8	2.94	1.58	1518.9	22.2
126.0	17.52	36.45	26.52	157.1	2.99	1.64	1518.9	22.2
129.0	17.47	36.45	26.53	155.7	3.03	1.70	1518.8	22.2
132.0	17.44	36.45	26.54	155.0	3.08	1.76	1518.8	22.2
135.0	17.39	36.45	26.56	153.7	3.13	1.83	1518.7	19.6
138.0	17.35	36.45	26.56	153.5	3.17	1.89	1518.6	19.6

```
DEPTH     TEMP    SALIN    SIGMA     SVA     DLTA     POT     SOUND     BV
                             T                 D      EN      VEL      FRQ

141.0    17.29    36.45    26.58    152.1    3.22    1.96    1518.5    25.3
144.0    17.24    36.45    26.59    150.7    3.27    2.02    1518.4    18.2
147.0    17.21    36.44    26.59    150.7    3.31    2.09    1518.3    15.2
150.0    17.18    36.45    26.60    149.8    3.36    2.16    1518.3    17.0
153.0    17.17    36.45    26.61    149.6    3.40    2.23    1518.3    11.9
156.0    17.17    36.45    26.61    149.4    3.45    2.30    1518.4    15.5
159.0    17.14    36.46    26.62    148.7    3.49    2.38    1518.3    15.5
161.0    17.14    36.46    26.62    148.5    3.52    2.42    1518.4    11.9
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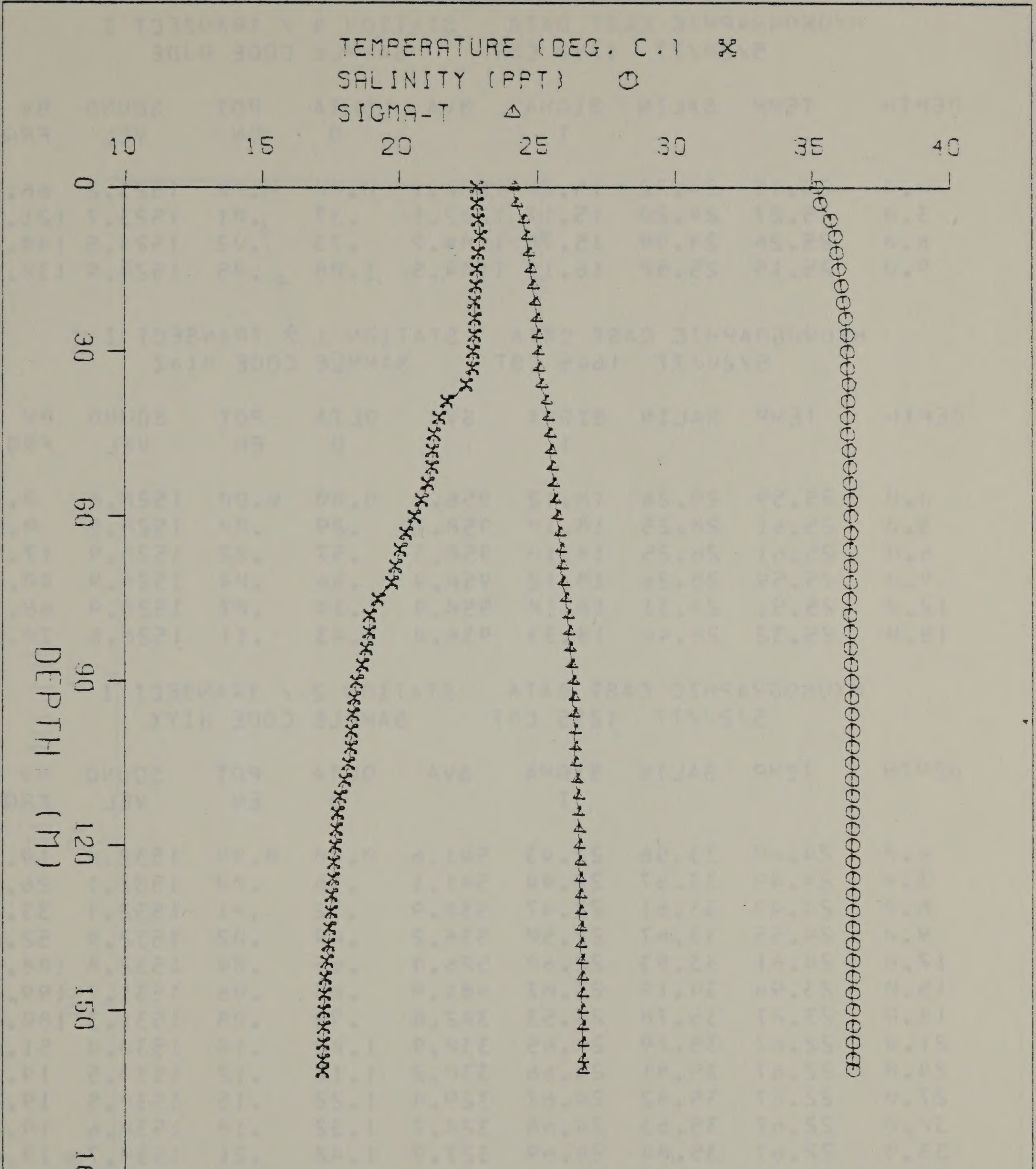


STATION 7 , TRANSECT II 4 /20/77 2025 CST

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT I
5/20/77 1750 CST SAMPLE CODE BJDE

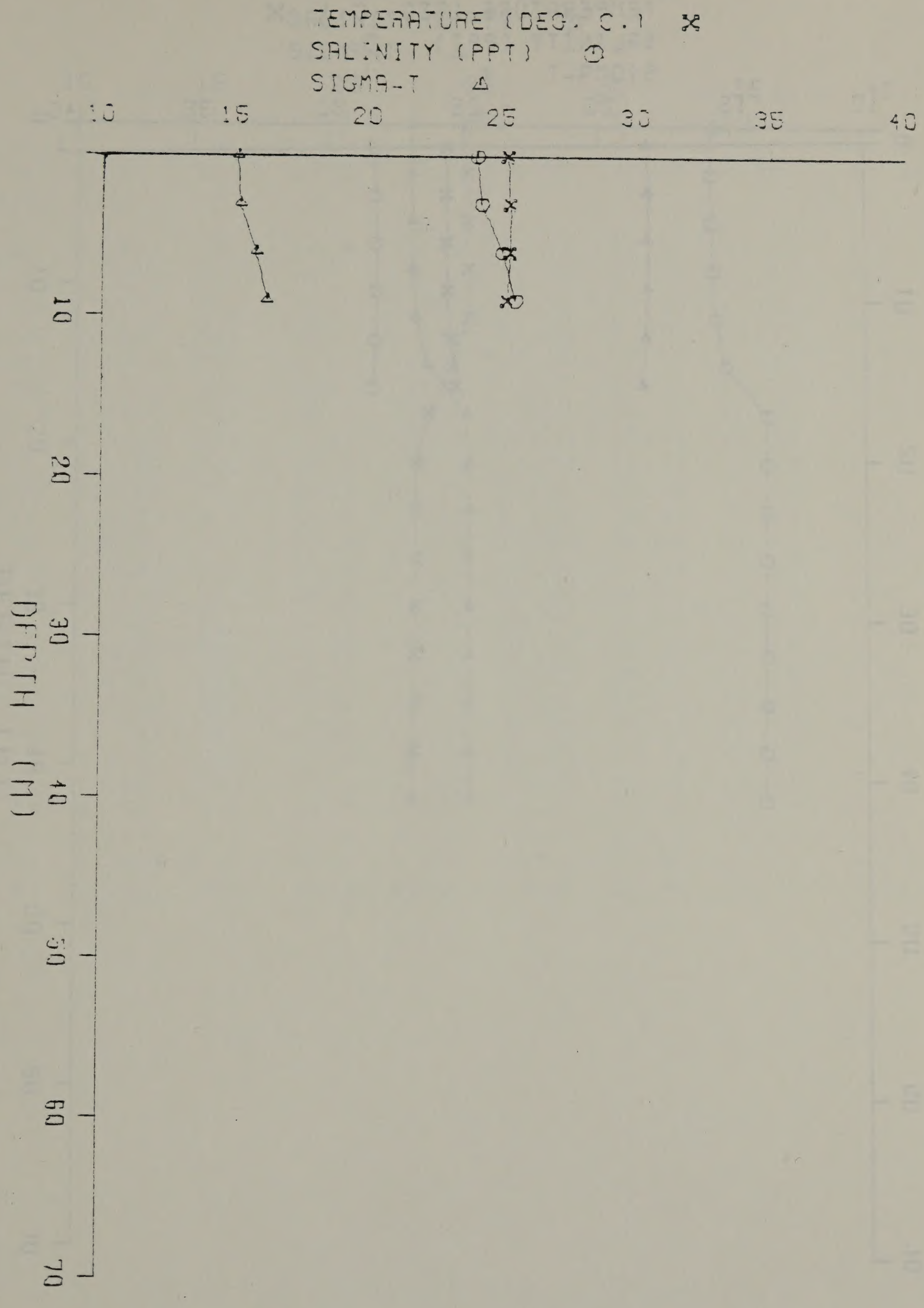
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.18	24.02	15.06	1252.1	0.00	0.00	1523.2	66.8
3.0	25.27	24.20	15.17	1242.1	.37	.01	1523.7	121.1
6.0	25.26	24.99	15.76	1184.2	.73	.02	1524.5	144.8
9.0	25.15	25.50	16.17	1144.5	1.08	.05	1524.9	130.7

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT I
5/20/77 1645 CST SAMPLE CODE BIWZ

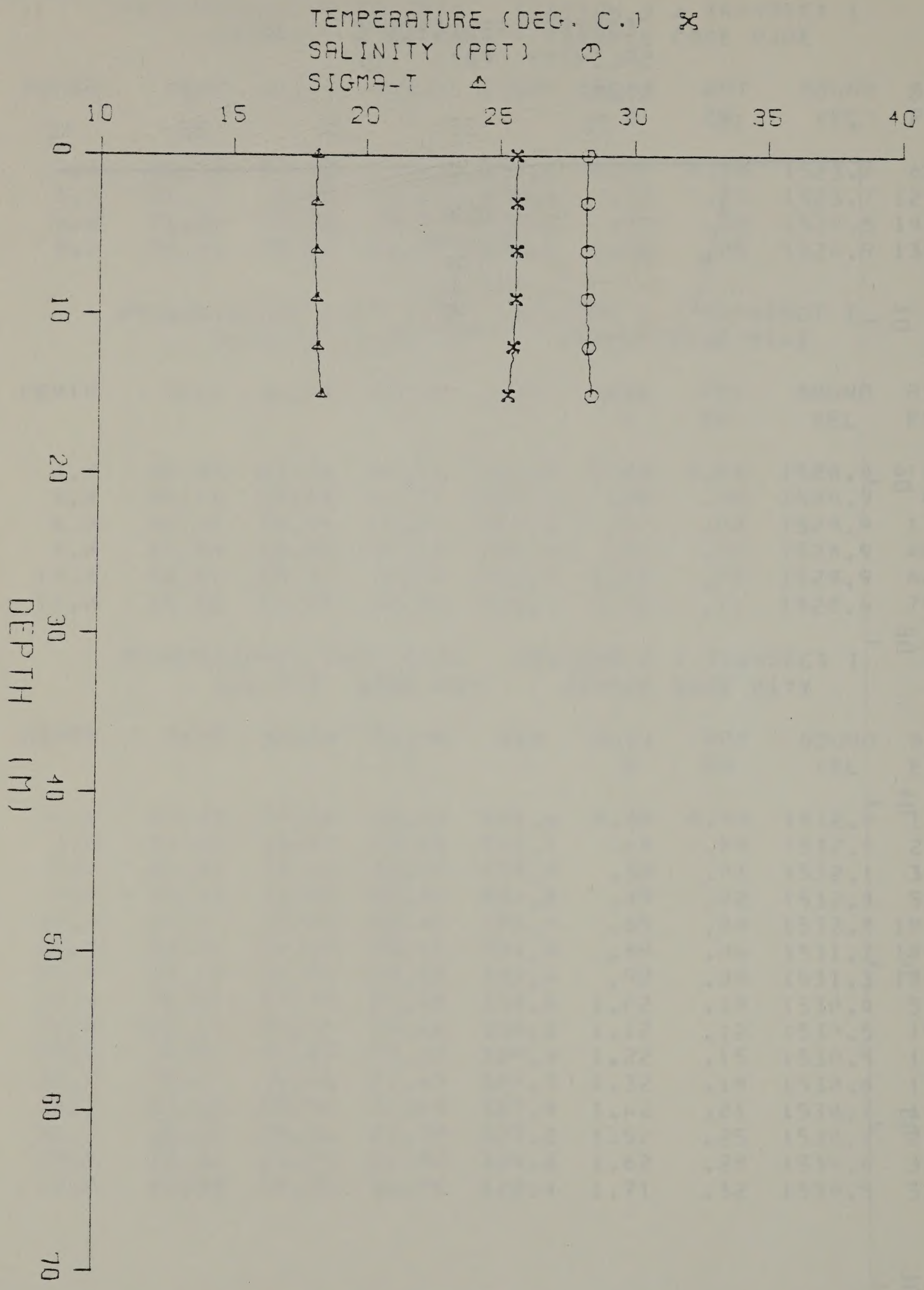
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.59	28.26	18.12	956.2	0.00	0.00	1528.8	0.0
3.0	25.61	28.25	18.10	958.1	.29	.00	1528.9	0.0
6.0	25.61	28.25	18.10	958.3	.57	.02	1528.9	17.5
9.0	25.59	28.26	18.12	956.9	.86	.04	1528.9	40.4
12.0	25.51	28.31	18.18	950.9	1.14	.07	1528.9	66.7
15.0	25.32	28.44	18.33	936.4	1.43	.11	1528.6	79.3

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT I
5/24/77 1255 CST SAMPLE CODE BIYX

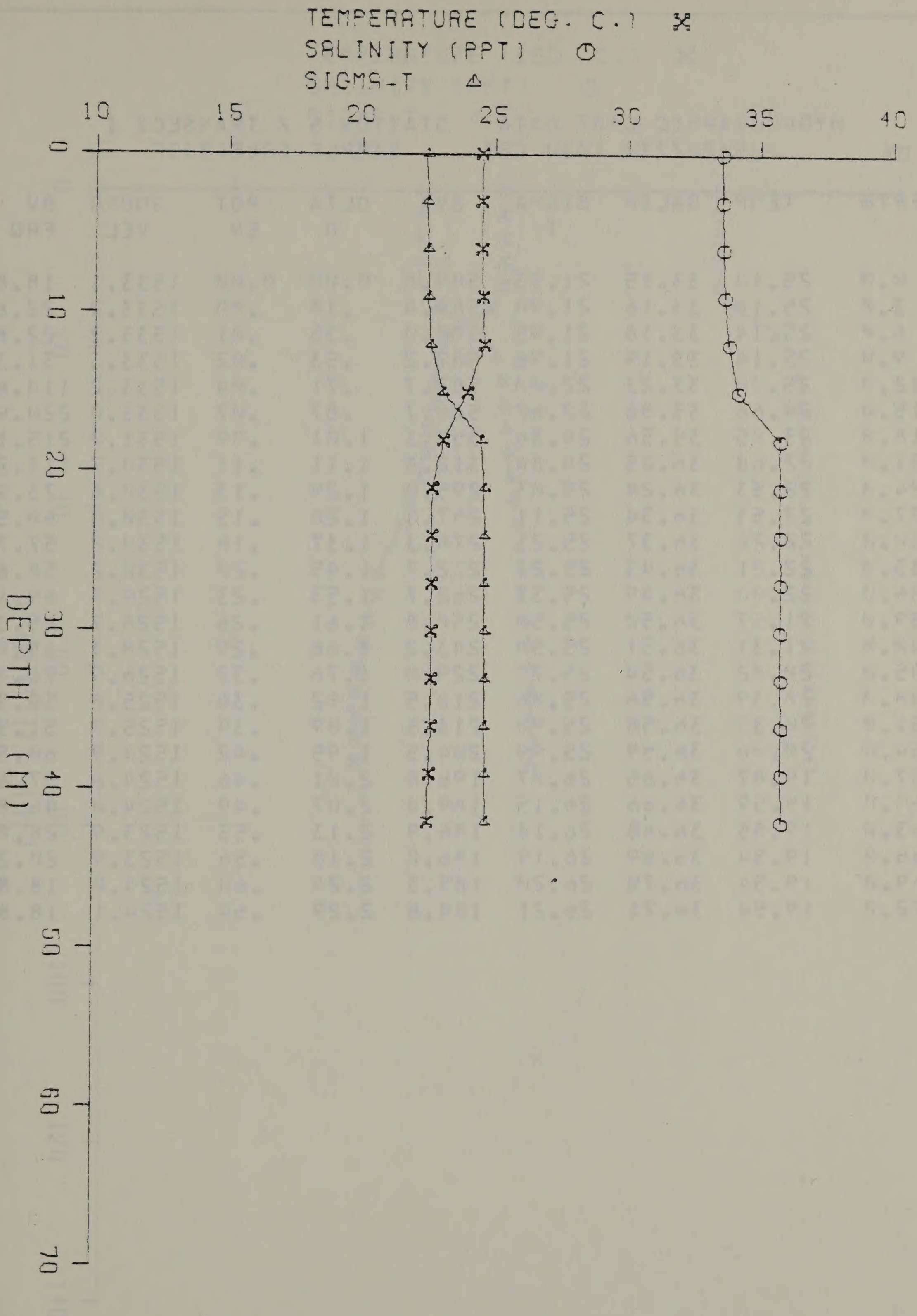
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	24.49	33.56	22.43	541.6	0.00	0.00	1532.0	19.3
3.0	24.49	33.57	22.44	541.1	.16	.00	1532.1	26.2
6.0	24.49	33.61	22.47	538.9	.32	.01	1532.1	33.1
9.0	24.55	33.67	22.50	536.2	.49	.02	1532.4	52.4
12.0	24.61	33.83	22.60	526.4	.65	.04	1532.8	108.5
15.0	23.96	34.19	23.07	481.9	.80	.06	1531.7	199.6
18.0	23.07	35.78	24.53	342.4	.92	.08	1531.3	180.8
21.0	22.67	35.79	24.65	330.9	1.02	.10	1530.4	51.8
24.0	22.67	35.81	24.66	330.2	1.12	.12	1530.5	19.4
27.0	22.67	35.82	24.67	329.4	1.22	.15	1530.5	19.4
30.0	22.67	35.83	24.68	328.7	1.32	.18	1530.6	19.4
33.0	22.67	35.84	24.69	327.9	1.42	.21	1530.7	19.4
36.0	22.67	35.85	24.70	327.2	1.52	.25	1530.7	27.0
39.0	22.61	35.86	24.72	324.8	1.62	.28	1530.6	32.9
42.0	22.55	35.88	24.75	322.4	1.71	.32	1530.5	32.9



STATION 4 / TRANSECT I 5 /20/77 1750 CST



STATION 1 / TRANSECT I 5 /20/77 1645 CST



STATION 2 / TRANSECT I 5 /20/77 1255 CST

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       HYDROGRAPHIC CAST DATA   STATION 5 / TRANSECT I
            5/20/77  1030 CST     SAMPLE CODE BJDF

DEPTH     TEMP   SALIN   SIGMA    SVA    DLTA     POT    SOUND    BV
                           T                D      EN     VEL     FRQ

  0.0    25.14   33.15   21.93   589.8   0.00    0.00   1533.1   18.8
  3.0    25.14   33.16   21.94   589.4    .18     .00   1533.2   22.6
  6.0    25.14   33.18   21.95   588.0    .35     .01   1533.2   22.6
  9.0    25.14   33.19   21.96   587.2    .53     .02   1533.3   31.3
 12.0    25.08   33.23   22.00   583.7    .71     .04   1533.2  114.6
 15.0    24.68   33.86   22.60   526.7    .87     .07   1533.0  220.9
 18.0    23.05   35.56   24.36   358.3   1.01     .09   1531.0  215.1
 21.0    22.68   36.05   24.84   312.8   1.11     .11   1530.7  117.2
 24.0    22.53   36.24   25.03   295.0   1.20     .13   1530.6   73.9
 27.0    22.53   36.34   25.11   287.8   1.28     .15   1530.8   60.5
 30.0    22.26   36.37   25.21   278.3   1.37     .18   1530.2   57.7
 33.0    22.21   36.43   25.27   272.7   1.45     .20   1530.2   58.6
 36.0    22.00   36.49   25.37   262.7   1.53     .23   1529.7   69.1
 39.0    21.57   36.50   25.50   250.8   1.61     .26   1528.7   65.3
 42.0    21.31   36.51   25.58   243.2   1.68     .29   1528.1   69.0
 45.0    20.82   36.54   25.73   229.0   1.76     .32   1526.9   76.4
 48.0    20.39   36.56   25.86   216.5   1.82     .36   1525.8   58.3
 51.0    20.33   36.58   25.90   213.5   1.89     .39   1525.7   51.5
 54.0    20.00   36.59   25.99   204.5   1.95     .42   1524.9   60.5
 57.0    19.87   36.65   26.07   196.8   2.01     .46   1524.6   57.6
 60.0    19.59   36.66   26.15   189.4   2.07     .49   1524.0   46.8
 63.0    19.55   36.68   26.18   186.9   2.13     .53   1523.9   28.0
 66.0    19.54   36.69   26.19   186.0   2.18     .56   1523.9   20.2
 69.0    19.54   36.70   26.20   185.3   2.24     .60   1524.0   18.8
 72.0    19.54   36.71   26.21   184.6   2.29     .64   1524.1   18.8
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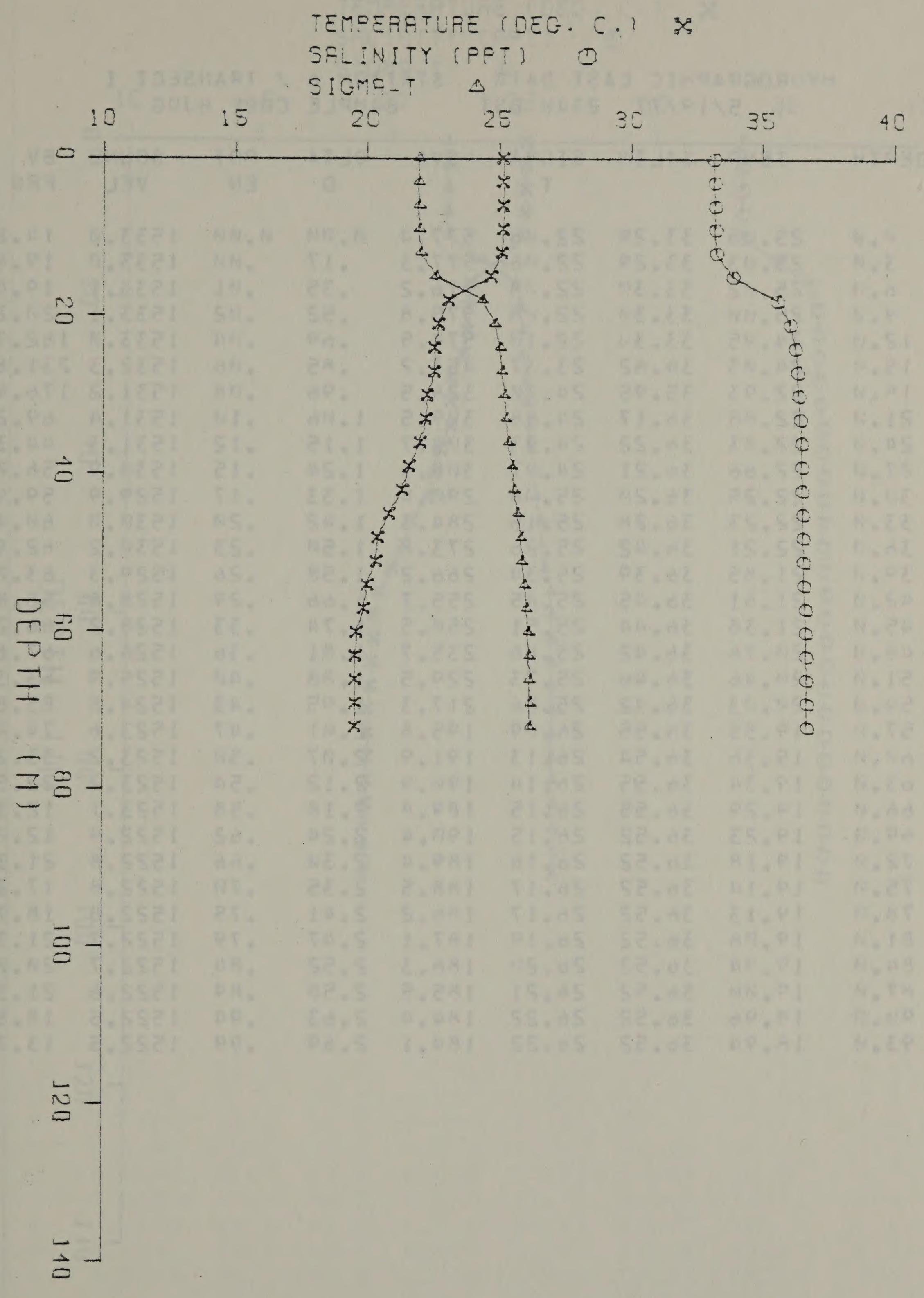
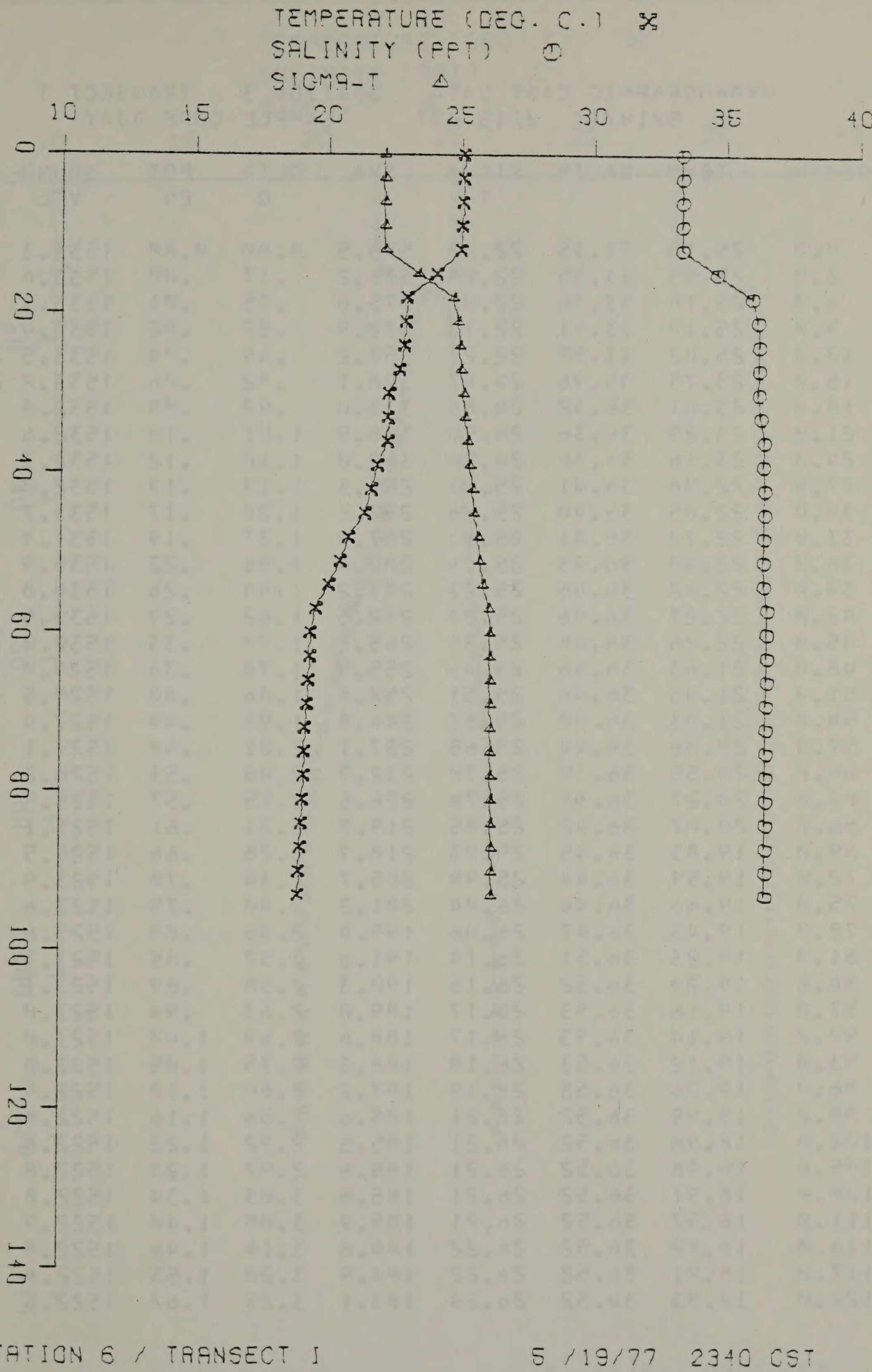


STATION 5 / TRANSECT I 5 /20/77 1030 CST

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT I
5/19/77 2340 CST SAMPLE CODE BJDG

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.05	33.29	22.06	577.4	0.00	0.00	1533.0	14.8
3.0	25.03	33.29	22.06	577.3	.17	.00	1533.0	19.4
6.0	25.02	33.30	22.08	576.2	.35	.01	1533.1	19.4
9.0	25.00	33.30	22.08	575.8	.52	.02	1533.1	20.2
12.0	24.95	33.30	22.10	574.5	.69	.04	1533.0	162.9
15.0	24.03	34.62	23.37	453.2	.85	.06	1532.3	231.6
18.0	22.93	35.95	24.70	326.5	.96	.08	1531.2	176.4
21.0	22.88	36.17	24.88	309.5	1.06	.10	1531.4	69.2
24.0	22.83	36.22	24.93	304.7	1.15	.12	1531.3	44.3
27.0	22.66	36.21	24.97	300.6	1.24	.15	1530.9	56.0
30.0	22.25	36.20	25.08	290.4	1.33	.17	1529.9	59.9
33.0	22.23	36.28	25.15	284.3	1.42	.20	1530.0	60.4
36.0	22.21	36.42	25.26	273.8	1.50	.23	1530.2	62.9
39.0	21.85	36.39	25.34	266.2	1.58	.26	1529.3	63.0
42.0	21.61	36.45	25.45	255.7	1.66	.29	1528.8	58.8
45.0	21.38	36.44	25.51	250.5	1.74	.33	1528.2	66.2
48.0	20.76	36.42	25.66	235.7	1.81	.36	1526.6	67.6
51.0	20.46	36.40	25.73	229.5	1.88	.40	1525.9	63.3
54.0	20.03	36.42	25.86	217.3	1.95	.43	1524.8	85.8
57.0	19.55	36.55	26.09	195.8	2.01	.47	1523.6	74.4
60.0	19.36	36.54	26.13	191.9	2.07	.50	1523.2	33.2
63.0	19.34	36.55	26.14	190.9	2.12	.54	1523.2	22.5
66.0	19.29	36.55	26.15	189.8	2.18	.58	1523.1	12.1
69.0	19.23	36.52	26.15	190.4	2.24	.62	1522.9	12.0
72.0	19.18	36.52	26.16	189.4	2.30	.66	1522.8	21.3
75.0	19.14	36.52	26.17	188.5	2.35	.70	1522.8	17.2
78.0	19.13	36.52	26.17	188.2	2.41	.75	1522.8	18.7
81.0	19.08	36.52	26.19	187.1	2.47	.79	1522.7	21.3
84.0	19.04	36.52	26.20	186.3	2.52	.84	1522.7	20.0
87.0	19.00	36.52	26.21	185.5	2.58	.89	1522.6	21.3
90.0	18.96	36.52	26.22	184.4	2.63	.94	1522.5	18.6
93.0	18.94	36.52	26.22	184.1	2.69	.99	1522.5	13.7

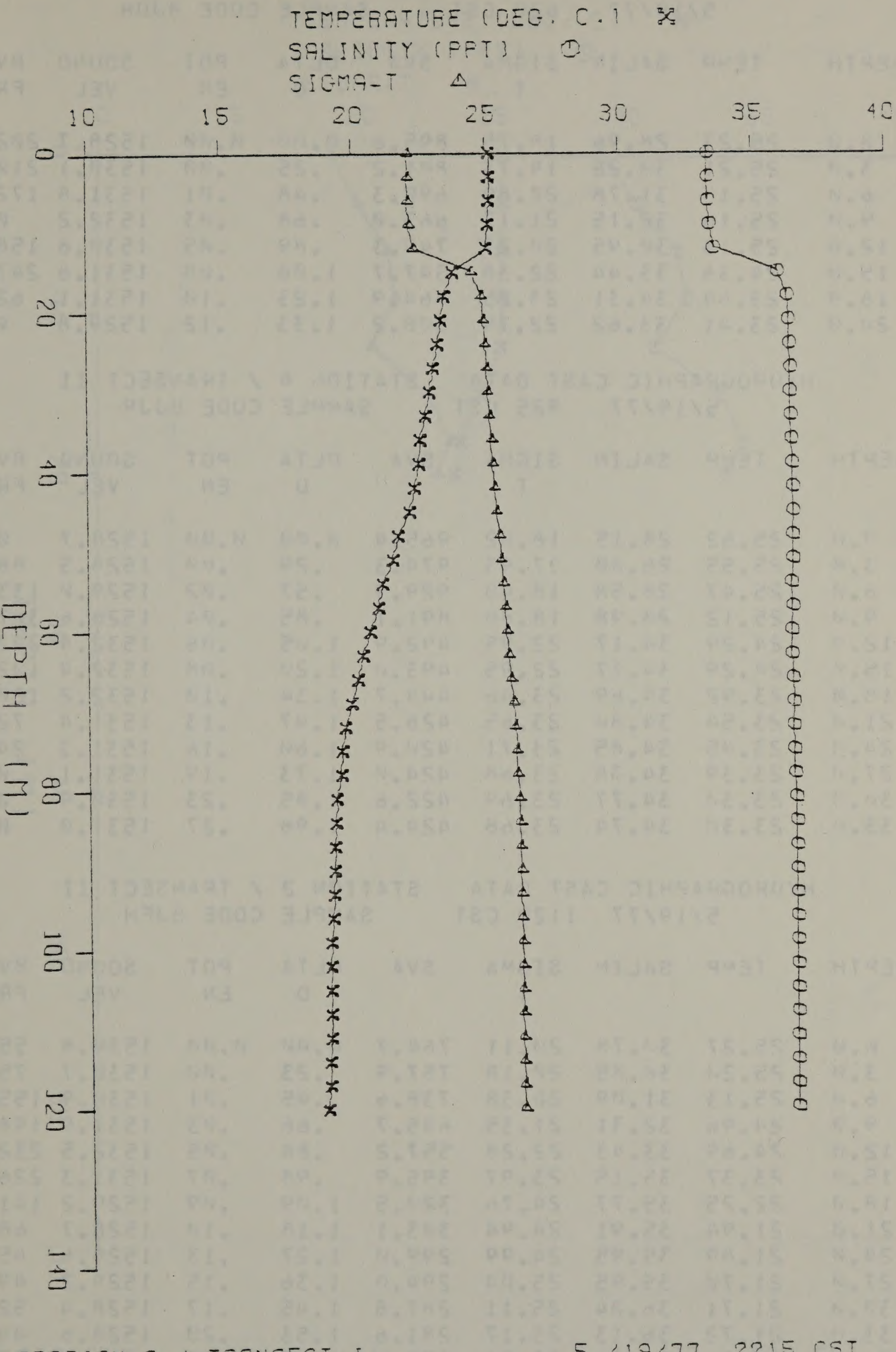


STATION 6 / TRANSECT I 5 /19/77 2340 CST

HYDROGRAPHIC CAST DATA   STATION 3 / TRANSECT I

5/19/77   2215 CST   SAMPLE CODE 8JAY

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.14	33.35	22.08	575.5	0.00	0.00	1533.3	0.0
3.0	25.15	33.35	22.08	576.2	.17	.00	1533.4	9.3
6.0	25.14	33.36	22.08	575.6	.35	.01	1533.4	34.3
9.0	25.10	33.41	22.13	570.9	.52	.02	1533.4	63.4
12.0	25.02	33.57	22.28	557.2	.69	.04	1533.5	219.7
15.0	23.75	35.96	24.47	348.1	.82	.06	1533.2	229.8
18.0	23.41	36.32	24.84	313.0	.92	.08	1532.8	94.6
21.0	23.29	36.36	24.90	306.9	1.01	.10	1532.6	49.3
24.0	23.16	36.38	24.96	302.0	1.10	.12	1532.3	50.7
27.0	22.98	36.41	25.03	295.3	1.19	.14	1532.0	45.8
30.0	22.85	36.40	25.06	292.6	1.28	.17	1531.7	40.7
33.0	22.70	36.41	25.11	287.9	1.37	.19	1531.4	51.8
36.0	22.49	36.43	25.19	280.4	1.46	.22	1530.9	48.6
39.0	22.42	36.45	25.22	277.2	1.54	.26	1530.8	41.8
42.0	22.27	36.46	25.27	272.5	1.62	.29	1530.5	50.1
45.0	22.06	36.48	25.35	265.8	1.70	.33	1530.0	60.3
48.0	21.63	36.46	25.45	255.9	1.78	.36	1529.0	57.5
51.0	21.43	36.46	25.51	250.8	1.86	.40	1528.5	49.6
54.0	21.03	36.40	25.57	244.8	1.93	.44	1527.4	54.8
57.0	20.86	36.44	25.65	237.1	2.01	.48	1527.1	51.2
60.0	20.55	36.39	25.70	232.9	2.08	.53	1526.2	48.3
63.0	20.27	36.38	25.76	226.5	2.15	.57	1525.5	55.3
66.0	20.07	36.42	25.85	219.0	2.21	.61	1525.1	58.7
69.0	19.83	36.45	25.93	210.9	2.28	.66	1524.5	54.0
72.0	19.59	36.44	25.99	205.7	2.34	.70	1523.9	46.3
75.0	19.46	36.46	26.04	201.2	2.40	.75	1523.6	37.7
78.0	19.43	36.47	26.06	199.4	2.46	.80	1523.6	45.9
81.0	19.23	36.51	26.14	191.6	2.52	.85	1523.1	44.8
84.0	19.20	36.52	26.15	190.3	2.58	.89	1523.1	24.9
87.0	19.16	36.53	26.17	189.0	2.63	.94	1523.0	20.3
90.0	19.14	36.53	26.17	188.6	2.69	1.00	1523.0	14.2
93.0	19.12	36.53	26.18	188.3	2.75	1.05	1523.0	19.0
96.0	19.06	36.53	26.19	187.2	2.80	1.10	1522.9	25.0
99.0	18.99	36.52	26.21	185.6	2.86	1.16	1522.8	20.3
102.0	18.98	36.52	26.21	185.5	2.92	1.22	1522.8	6.4
105.0	18.98	36.52	26.21	185.6	2.97	1.28	1522.8	0.0
108.0	18.97	36.52	26.21	185.8	3.03	1.34	1522.8	0.0
111.0	18.97	36.52	26.21	185.9	3.08	1.40	1522.9	15.9
114.0	18.92	36.52	26.22	184.8	3.14	1.46	1522.8	15.9
117.0	18.91	36.52	26.22	184.9	3.20	1.53	1522.8	20.2
120.0	18.83	36.52	26.24	183.1	3.25	1.60	1522.6	28.8



STATION 3 / TRANSECT I 5 /19/77 2215 CST

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          HYDROGRAPHIC CAST DATA   STATION 1 / TRANSECT II
                5/19/77   620 CST      SAMPLE CODE BJDH

DEPTH     TEMP  SALIN   SIGMA     SVA    DLTA     POT    SOUND   BV
                          T                D      EN      VEL    FRQ

  0.0    25.23  28.96  18.75   895.6   0.00    0.00   1528.7 202.0
  3.0    25.21  30.26  19.73   801.2    .25     .00   1530.1 210.5
  6.0    25.18  31.78  20.89   690.3    .48     .01   1531.8 172.7
  9.0    25.16  32.15  21.17   663.0    .68     .03   1532.2   0.0
 12.0    25.13  30.95  20.27   749.3    .89     .05   1530.8 158.0
 15.0    24.36  33.44  22.38   547.7   1.08     .08   1531.8 247.8
 18.0    23.64  34.31  23.25   464.9   1.23     .10   1531.1  62.4
 20.0    23.41  33.62  22.79   508.2   1.33     .12   1529.8   0.0

          HYDROGRAPHIC CAST DATA   STATION 4 / TRANSECT II
                5/19/77   925 CST      SAMPLE CODE BJJR

DEPTH     TEMP  SALIN   SIGMA     SVA    DLTA     POT    SOUND   BV
                          T                D      EN      VEL    FRQ

  0.0    25.62  28.15  18.02   965.4   0.00    0.00   1528.7   0.0
  3.0    25.55  28.00  17.93   974.3    .29     .00   1528.5  88.0
  6.0    25.47  28.58  18.40   929.9    .57     .02   1529.0 133.9
  9.0    25.12  28.98  18.80   891.1    .85     .04   1528.6 307.3
 12.0    24.29  34.17  22.95   492.9   1.05     .06   1532.4 292.8
 15.0    24.29  34.17  22.95   493.0   1.20     .08   1532.4 102.3
 18.0    23.92  34.69  23.46   444.7   1.34     .10   1532.2 120.0
 21.0    23.54  34.80  23.65   426.5   1.47     .13   1531.4  72.1
 24.0    23.45  34.85  23.71   420.9   1.60     .16   1531.3  24.6
 27.0    23.39  34.78  23.68   424.0   1.73     .19   1531.1   0.0
 30.0    23.30  34.77  23.69   422.6   1.85     .23   1530.9   0.0
 33.0    23.30  34.74  23.68   424.4   1.98     .27   1531.0   0.0

          HYDROGRAPHIC CAST DATA   STATION 2 / TRANSECT II
                5/19/77  1120 CST      SAMPLE CODE BJFH

DEPTH     TEMP  SALIN   SIGMA     SVA    DLTA     POT    SOUND   BV
                          T                D      EN      VEL    FRQ

  0.0    25.27  30.78  20.11   764.7   0.00    0.00   1530.8  55.5
  3.0    25.20  30.85  20.18   757.9    .23     .00   1530.7  75.7
  6.0    25.13  31.09  20.38   738.6    .45     .01   1530.9 155.8
  9.0    24.96  32.31  21.35   645.7    .66     .03   1531.9 198.0
 12.0    24.69  33.43  22.28   557.2    .84     .05   1532.5 232.4
 15.0    23.37  35.15  23.97   395.9    .98     .07   1531.3 226.2
 18.0    22.25  35.77  24.76   320.5   1.09     .09   1529.2 141.8
 21.0    21.94  35.91  24.94   303.1   1.18     .10   1528.7  68.7
 24.0    21.89  35.95  24.99   299.0   1.27     .13   1528.6  45.2
 27.0    21.70  35.95  25.04   294.0   1.36     .15   1528.2  49.8
 30.0    21.71  36.04  25.11   287.8   1.45     .17   1528.4  52.3
 33.0    21.72  36.13  25.17   281.6   1.53     .20   1528.6  44.0
 36.0    21.76  36.18  25.20   279.1   1.62     .23   1528.8  33.7
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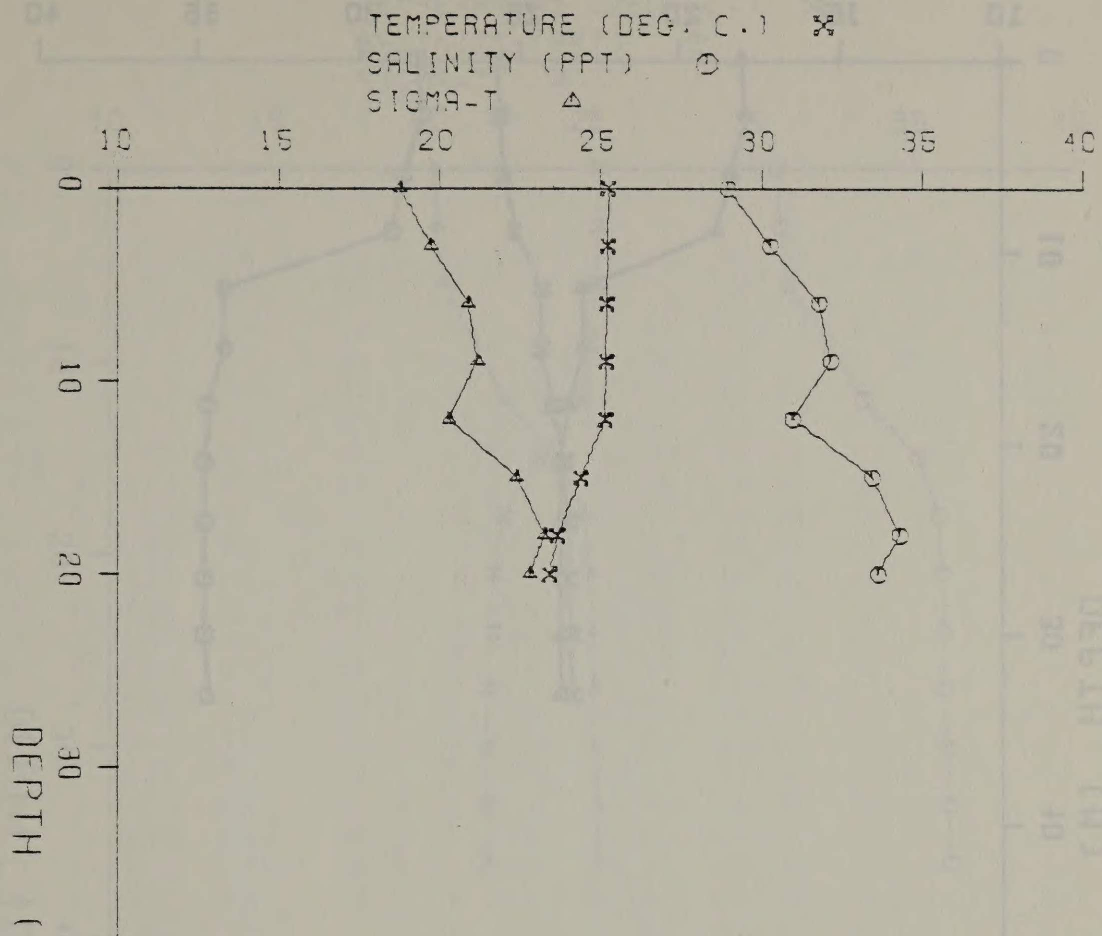
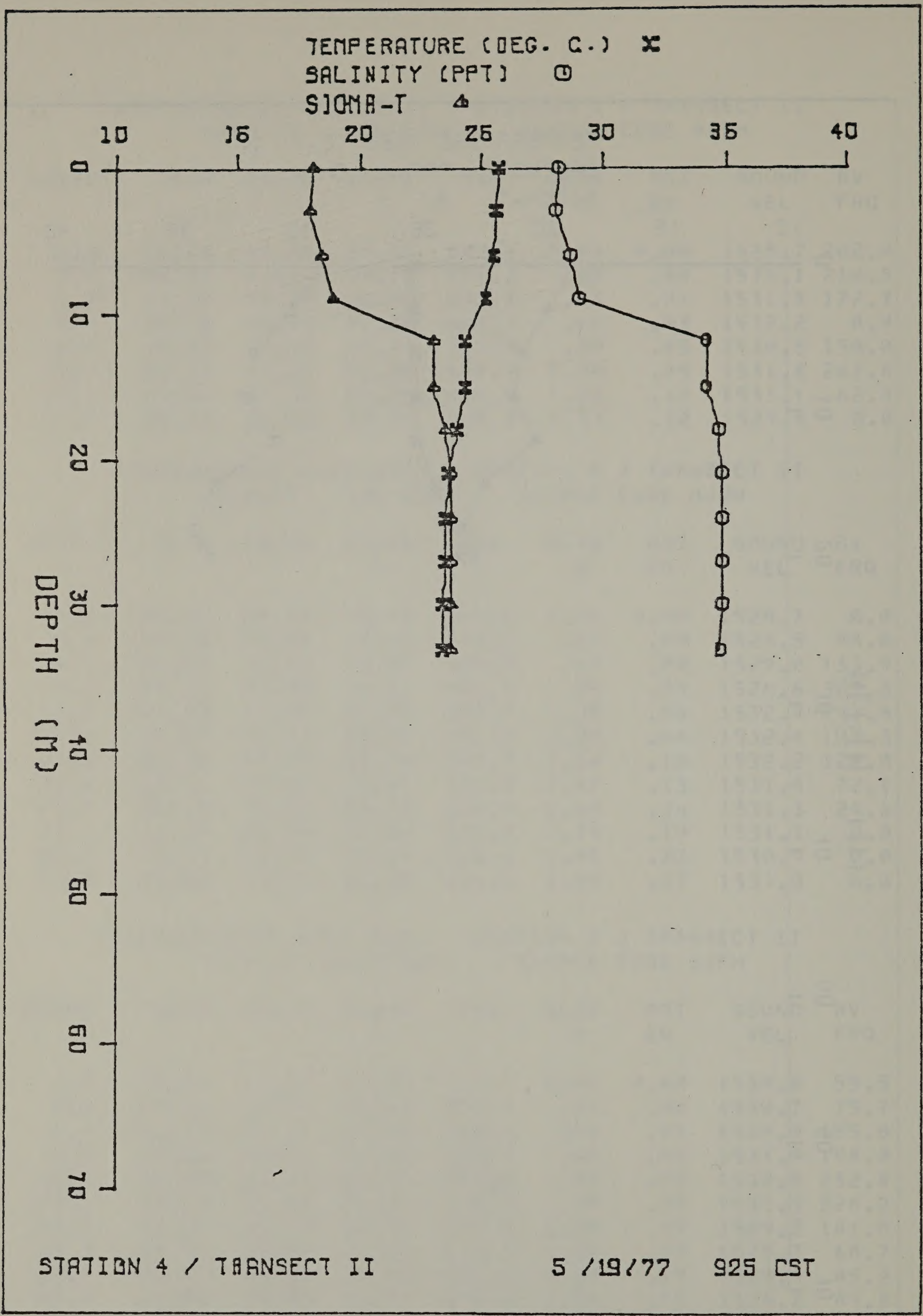
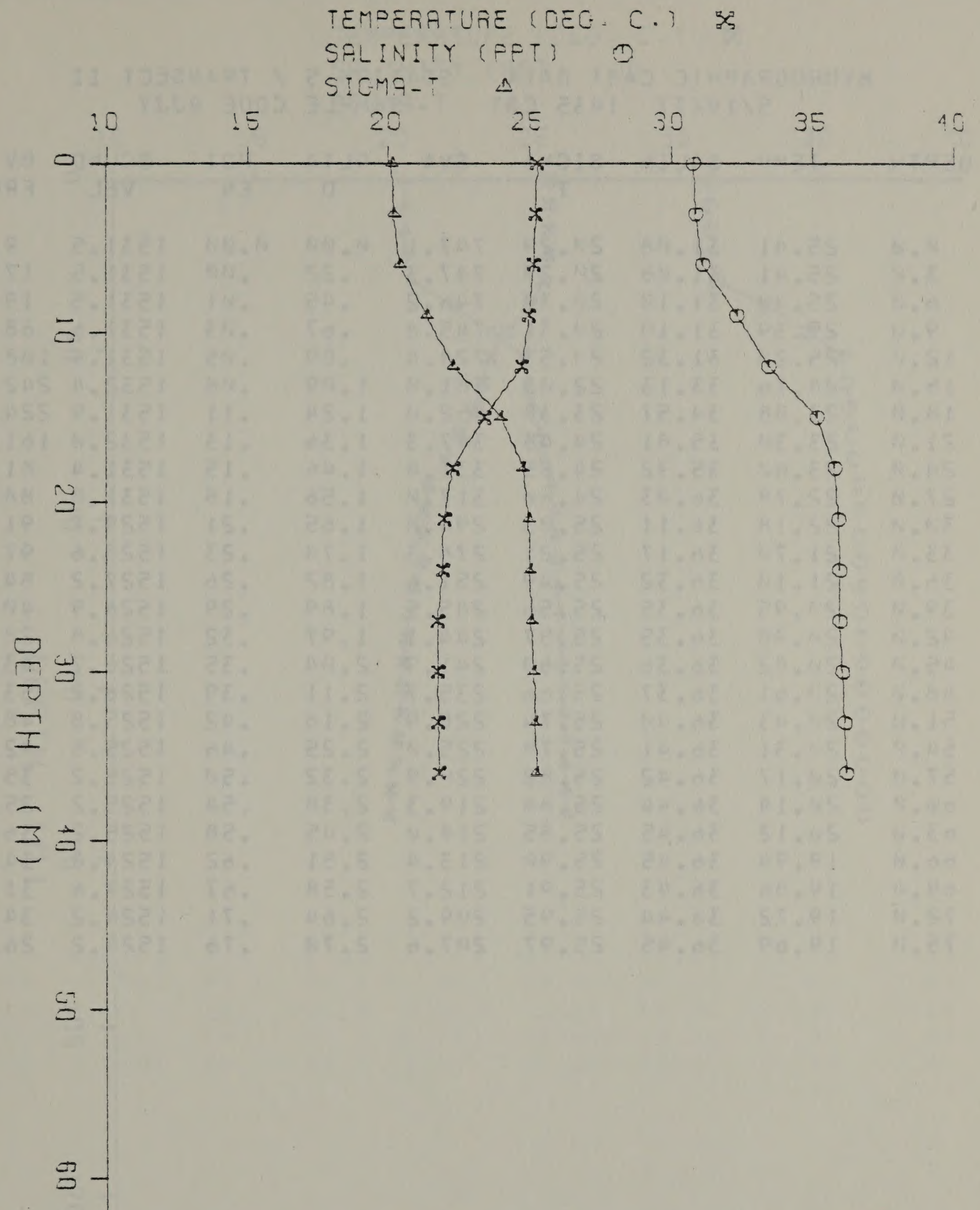


STATION 1 / TRANSECT II 5 /19/77 620 CST



STATION 4 / TRANSECT II 5 /19/77 925 CST

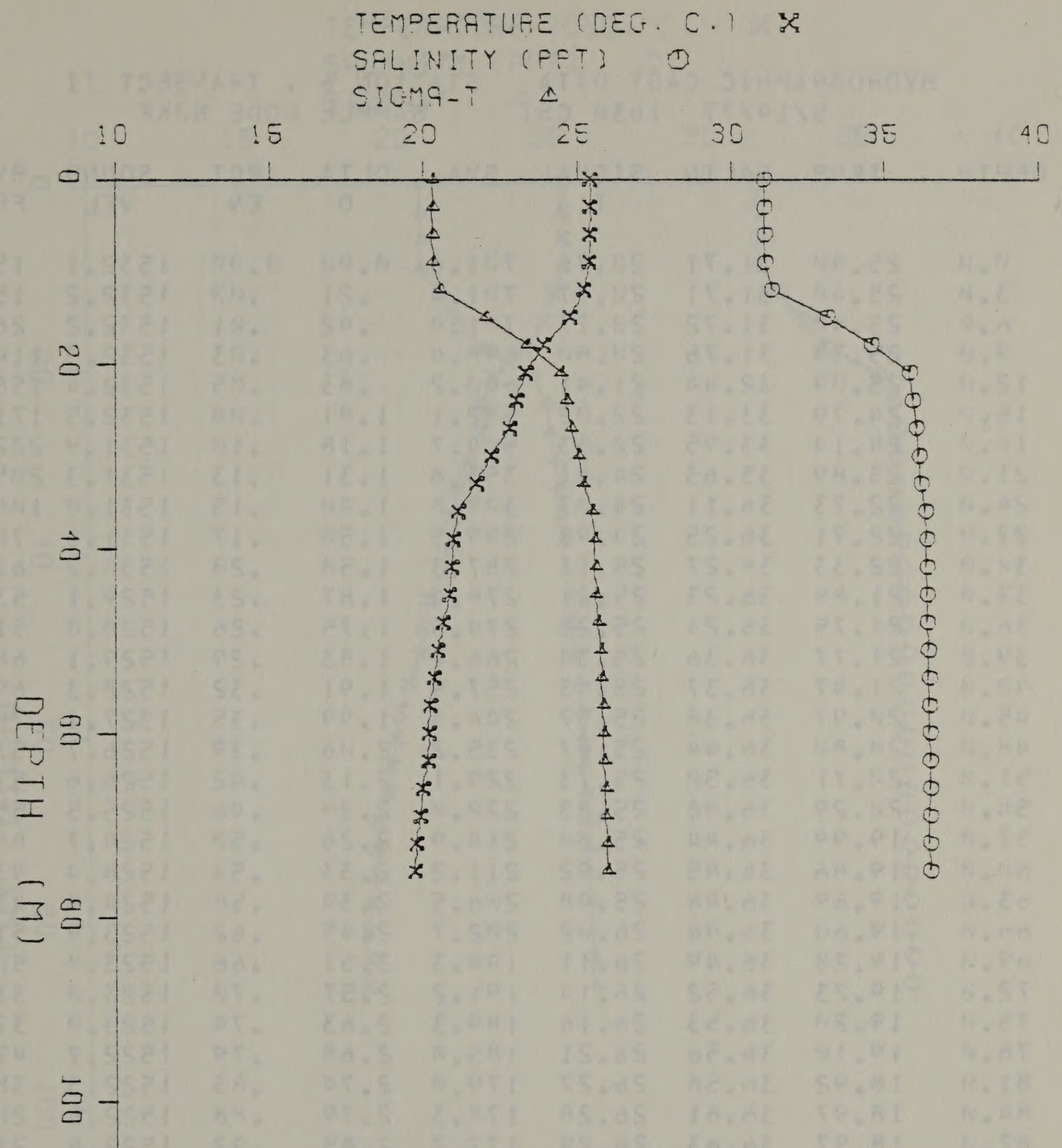


STATION 2 / TRANSECT II 5 /19/77 1120 CST

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT II

5/19/77 1435 CST SAMPLE CODE 8JJY

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.41	31.08	20.29	747.1	0.00	0.00	1531.5	9.0
3.0	25.41	31.08	20.29	747.3	.22	.00	1531.5	17.3
6.0	25.40	31.10	20.30	746.2	.45	.01	1531.5	19.0
9.0	25.39	31.10	20.31	745.8	.67	.03	1531.6	68.9
12.0	25.20	31.32	20.53	724.4	.89	.05	1531.4	188.7
15.0	24.76	33.13	22.03	581.0	1.09	.08	1532.4	242.5
18.0	23.88	34.57	23.38	452.0	1.24	.11	1531.9	224.8
21.0	23.30	35.81	24.48	347.3	1.36	.13	1532.0	161.9
24.0	23.00	35.92	24.65	331.0	1.46	.15	1531.4	81.3
27.0	22.78	36.03	24.80	317.0	1.56	.18	1531.0	88.8
30.0	22.18	36.11	25.03	294.8	1.65	.21	1529.7	91.7
33.0	21.70	36.17	25.21	278.3	1.74	.23	1528.6	97.0
36.0	21.10	36.32	25.49	251.6	1.82	.26	1527.2	84.6
39.0	20.95	36.35	25.56	245.5	1.89	.29	1526.9	40.9
42.0	20.90	36.35	25.57	244.1	1.97	.32	1526.8	28.5
45.0	20.82	36.36	25.60	241.9	2.04	.35	1526.7	43.1
48.0	20.61	36.37	25.66	235.7	2.11	.39	1526.2	53.7
51.0	20.43	36.40	25.74	228.9	2.18	.42	1525.8	48.7
54.0	20.31	36.41	25.78	225.0	2.25	.46	1525.5	42.1
57.0	20.17	36.42	25.82	220.9	2.32	.50	1525.2	35.7
60.0	20.14	36.44	25.84	219.3	2.38	.54	1525.2	25.9
63.0	20.12	36.45	25.85	218.0	2.45	.58	1525.2	36.5
66.0	19.94	36.45	25.90	213.4	2.51	.62	1524.8	34.5
69.0	19.86	36.43	25.91	212.7	2.58	.67	1524.6	31.0
72.0	19.72	36.44	25.95	209.2	2.64	.71	1524.2	34.1
75.0	19.69	36.45	25.97	207.6	2.70	.76	1524.2	26.8



STATION 5 / TRANSECT II 5 /19/77 1435 CST

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            HYDROGRAPHIC CAST DATA   STATION 6 , TRANSECT II
                 5/19/77  1630 CST     SAMPLE CODE BJKF

 DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND    BV
                            T                D      EN      VEL    FRQ

   0.0    25.40   31.71   20.76   701.6    0.00    0.00   1532.1   15.2
   3.0    25.40   31.71   20.77   701.4     .21     .00   1532.2   15.2
   6.0    25.40   31.72   20.77   701.0     .42     .01   1532.2   26.4
   9.0    25.39   31.76   20.80   698.4     .63     .03   1532.3  114.7
  12.0    25.09   32.44   21.41   640.2     .83     .05   1532.4  158.6
  15.0    24.79   33.13   22.02   582.1    1.01     .08   1532.5  171.2
  18.0    24.14   33.95   22.83   504.7    1.18     .10   1531.9  222.3
  21.0    23.09   35.63   24.41   353.8    1.31     .13   1531.3  205.4
  24.0    22.73   36.11   24.87   309.8    1.40     .15   1531.0  108.6
  27.0    22.71   36.25   24.98   299.5    1.50     .17   1531.1   70.2
  30.0    22.33   36.27   25.11   287.3    1.58     .20   1530.2   67.9
  33.0    21.88   36.23   25.21   278.4    1.67     .23   1529.1   53.0
  36.0    21.75   36.24   25.25   274.5    1.75     .26   1528.8   51.8
  39.0    21.77   36.36   25.34   266.2    1.83     .29   1529.1   60.5
  42.0    21.47   36.37   25.43   257.9    1.91     .32   1528.3   69.2
  45.0    20.97   36.38   25.57   244.3    1.99     .35   1527.1   70.4
  48.0    20.80   36.44   25.67   235.2    2.06     .39   1526.7   57.9
  51.0    20.71   36.50   25.73   229.1    2.13     .42   1526.6   57.6
  54.0    20.29   36.48   25.83   220.0    2.20     .46   1525.5   55.8
  57.0    19.99   36.44   25.88   214.9    2.26     .50   1524.7   44.2
  60.0    19.86   36.45   25.92   211.2    2.33     .54   1524.4   43.1
  63.0    19.69   36.46   25.98   206.5    2.39     .58   1524.0   43.6
  66.0    19.60   36.48   26.02   202.7    2.45     .62   1523.9   51.9
  69.0    19.28   36.49   26.11   194.3    2.51     .66   1523.0   50.3
  72.0    19.23   36.52   26.14   191.2    2.57     .70   1523.0   33.6
  75.0    19.20   36.53   26.16   189.3    2.63     .74   1523.0   37.3
  78.0    19.10   36.56   26.21   185.0    2.68     .79   1522.7   47.8
  81.0    18.92   36.58   26.27   179.0    2.74     .83   1522.3   38.6
  84.0    18.97   36.61   26.28   178.3    2.79     .88   1522.6   20.9
  87.0    18.97   36.63   26.29   177.2    2.85     .92   1522.6   23.3
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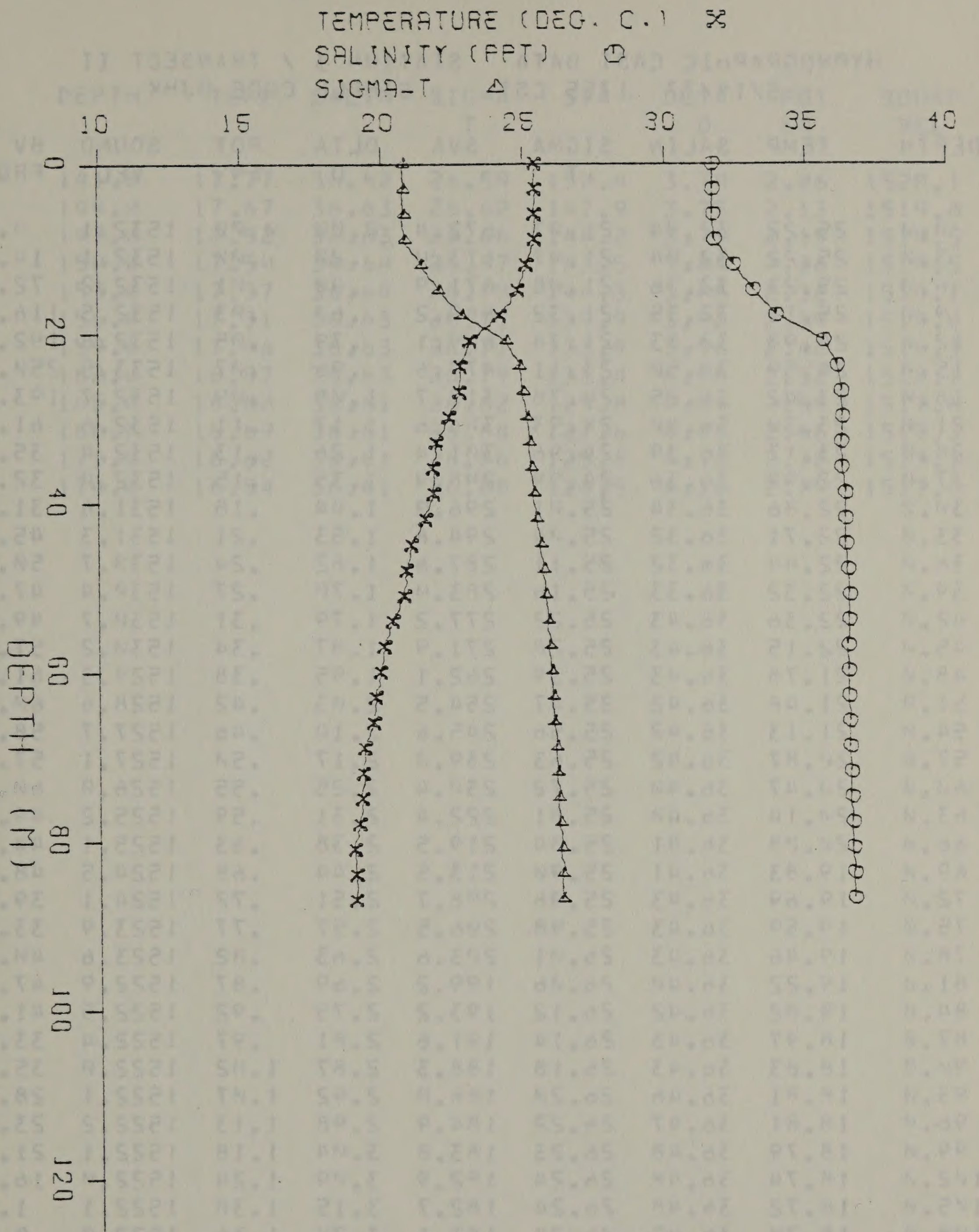


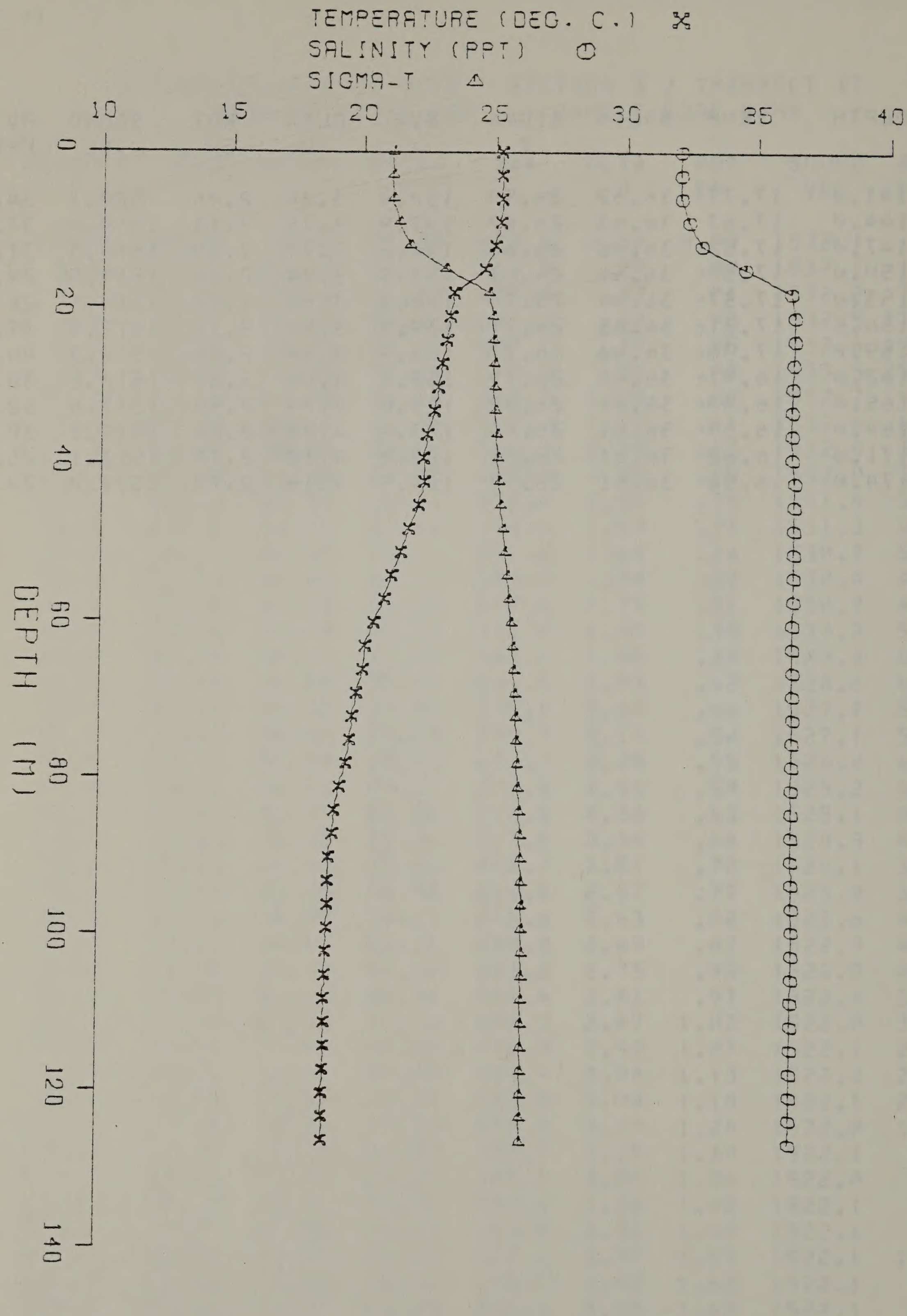
STATION 6 . TRANSECT II 5 /19/77 1630 CST

HYDROGRAPHIC CAST DATA   STATION 3 / TRANSECT II

5/18/77 1755 CST   SAMPLE CODE BJHK

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.22	32.04	21.07	672.4	0.00	0.00	1532.1	0.0
3.0	25.22	32.04	21.07	673.0	.20	.00	1532.1	14.2
6.0	25.23	32.06	21.08	671.9	.40	.01	1532.2	72.0
9.0	25.18	32.35	21.32	649.2	.60	.03	1532.5	116.6
12.0	24.98	32.83	21.74	609.1	.79	.05	1532.6	192.7
15.0	24.59	34.50	23.11	477.6	.96	.07	1533.5	250.7
18.0	23.42	36.25	24.78	318.7	1.08	.09	1532.7	193.5
21.0	23.30	36.40	24.93	304.6	1.17	.11	1532.6	61.6
24.0	23.17	36.39	24.96	301.4	1.26	.13	1532.4	35.8
27.0	22.99	36.36	24.99	298.9	1.35	.15	1532.0	32.0
30.0	22.86	36.34	25.01	296.9	1.44	.18	1531.6	31.5
33.0	22.71	36.32	25.04	294.6	1.53	.21	1531.3	45.4
36.0	22.44	36.32	25.11	287.6	1.62	.24	1530.7	50.6
39.0	22.32	36.33	25.16	283.0	1.70	.27	1530.4	47.9
42.0	22.36	36.43	25.22	277.2	1.79	.31	1530.7	49.5
45.0	22.15	36.43	25.28	271.9	1.87	.34	1530.2	57.7
48.0	21.78	36.43	25.39	262.1	1.95	.38	1529.3	61.8
51.0	21.48	36.42	25.47	254.5	2.03	.42	1528.6	60.1
54.0	21.13	36.42	25.56	245.6	2.10	.46	1527.7	58.4
57.0	20.87	36.42	25.63	239.0	2.17	.50	1527.1	57.7
60.0	20.47	36.40	25.72	230.4	2.25	.55	1526.0	60.3
63.0	20.14	36.40	25.81	222.4	2.31	.59	1525.2	49.1
66.0	20.08	36.41	25.84	219.5	2.38	.63	1525.1	44.2
69.0	19.83	36.41	25.90	213.5	2.44	.68	1524.5	48.9
72.0	19.69	36.43	25.96	208.7	2.51	.72	1524.1	39.5
75.0	19.59	36.43	25.98	206.5	2.57	.77	1523.9	33.7
78.0	19.46	36.43	26.01	203.6	2.63	.82	1523.6	40.2
81.0	19.22	36.40	26.06	199.2	2.69	.87	1522.9	47.9
84.0	19.02	36.42	26.12	193.2	2.75	.92	1522.5	41.2
87.0	18.97	36.43	26.14	191.6	2.81	.97	1522.4	33.3
90.0	18.83	36.43	26.18	188.3	2.87	1.02	1522.0	35.6
93.0	18.81	36.46	26.20	186.0	2.92	1.07	1522.1	28.1
96.0	18.81	36.47	26.22	184.9	2.98	1.13	1522.2	23.0
99.0	18.79	36.48	26.23	183.8	3.04	1.18	1522.1	21.8
102.0	18.74	36.48	26.24	182.9	3.09	1.24	1522.0	16.3
105.0	18.72	36.48	26.24	182.7	3.15	1.30	1522.1	1.5
108.0	18.70	36.47	26.24	183.1	3.20	1.36	1522.0	0.0
111.0	18.70	36.46	26.24	183.4	3.26	1.42	1522.1	0.0
114.0	18.71	36.46	26.23	183.8	3.31	1.48	1522.1	1.5
117.0	18.69	36.46	26.24	183.6	3.37	1.55	1522.1	14.5
120.0	18.65	36.46	26.24	183.0	3.42	1.62	1522.1	0.0
123.0	18.66	36.45	26.23	184.1	3.48	1.69	1522.1	0.0
126.0	18.66	36.44	26.23	184.4	3.53	1.76	1522.2	0.0

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
141.0	17.77	36.62	26.59	150.4	3.70	2.06	1520.1	34.5
144.0	17.67	36.63	26.62	147.9	3.75	2.13	1519.8	37.3
147.0	17.52	36.63	26.66	144.2	3.79	2.19	1519.5	31.4
150.0	17.50	36.64	26.67	143.5	3.84	2.26	1519.5	29.7
153.0	17.37	36.64	26.70	140.3	3.88	2.32	1519.1	28.5
156.0	17.31	36.63	26.71	139.9	3.92	2.39	1519.0	37.5
159.0	17.06	36.63	26.77	133.9	3.96	2.46	1518.3	40.7
162.0	16.97	36.63	26.79	132.4	4.00	2.52	1518.1	30.6
165.0	16.80	36.61	26.82	129.8	4.04	2.59	1517.6	32.8
168.0	16.69	36.61	26.84	127.6	4.08	2.66	1517.3	30.0
171.0	16.62	36.61	26.86	125.8	4.12	2.72	1517.1	26.5
174.0	16.54	36.61	26.88	124.5	4.16	2.79	1517.0	24.3



STATION 3 / TRANSECT II

5 /18/77 1755 CST

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          HYDROGRAPHIC CAST DATA    STATION 7 , TRANSECT II
              5/18/77  2205 CST      SAMPLE CODE BJKN

 DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND     BV
                               T               D      EN      VEL    FRQ

   0.0     25.11   32.53   21.47   633.7    0.00    0.00   1532.3    0.0
   3.0     25.12   32.54   21.47   634.1     .19     .00   1532.4    7.5
   6.0     25.12   32.54   21.47   633.9     .38     .01   1532.5    7.5
   9.0     25.14   32.55   21.47   634.0     .57     .03   1532.6  153.4
  12.0     24.62   33.85   22.61   525.1     .75     .04   1532.8  233.1
  15.0     23.85   35.53   24.11   382.7     .88     .06   1532.9  203.6
  18.0     23.67   36.14   24.62   333.5     .99     .08   1533.2  115.5
  21.0     23.61   36.29   24.75   321.3    1.09     .10   1533.3   66.0
  24.0     23.47   36.34   24.84   313.6    1.18     .12   1533.1   61.5
  27.0     23.21   36.37   24.94   304.0    1.27     .15   1532.5   57.2
  30.0     23.05   36.39   24.99   298.7    1.36     .17   1532.2   48.7
  33.0     22.86   36.39   25.05   293.3    1.45     .20   1531.8   45.2
  36.0     22.71   36.39   25.09   289.5    1.54     .23   1531.4   45.5
  39.0     22.54   36.40   25.15   284.0    1.63     .27   1531.1   41.9
  42.0     22.46   36.41   25.18   281.6    1.71     .30   1530.9   40.8
  45.0     22.25   36.40   25.23   276.5    1.80     .34   1530.4   56.2
  48.0     21.95   36.42   25.33   267.3    1.88     .38   1529.7   58.7
  51.0     21.74   36.43   25.40   260.8    1.96     .42   1529.3   50.0
  54.0     21.70   36.49   25.45   255.9    2.04     .46   1529.3   53.4
  57.0     21.40   36.49   25.54   247.8    2.11     .50   1528.5   58.1
  60.0     21.13   36.50   25.62   240.5    2.18     .55   1527.9   47.5
  63.0     20.95   36.47   25.65   237.6    2.26     .59   1527.4   41.0
  66.0     20.78   36.48   25.70   233.0    2.33     .64   1527.0   44.9
  69.0     20.64   36.49   25.75   228.5    2.40     .69   1526.7   52.3
  72.0     20.31   36.49   25.83   220.6    2.46     .74   1525.9   59.4
  75.0     20.09   36.52   25.92   212.4    2.53     .78   1525.4   47.4
  78.0     20.02   36.52   25.94   210.4    2.59     .83   1525.2   39.4
  81.0     19.77   36.51   25.99   205.4    2.66     .89   1524.6   46.2
  84.0     19.65   36.53   26.04   200.8    2.72     .94   1524.4   42.3
  87.0     19.52   36.54   26.08   197.3    2.78     .99   1524.1   36.9
  90.0     19.43   36.54   26.11   194.7    2.84    1.04   1523.8   32.2
  93.0     19.36   36.55   26.13   192.8    2.89    1.10   1523.7   35.3
  96.0     19.22   36.55   26.17   189.1    2.95    1.15   1523.4   42.8
  99.0     18.98   36.54   26.22   184.5    3.01    1.21   1522.8   36.7
 102.0     18.94   36.54   26.24   183.1    3.06    1.27   1522.7   39.3
 105.0     18.72   36.55   26.30   177.5    3.12    1.32   1522.1   43.7
 108.0     18.57   36.54   26.33   174.4    3.17    1.38   1521.7   37.1
 111.0     18.42   36.54   26.36   171.3    3.22    1.44   1521.4   36.4
 114.0     18.35   36.55   26.39   168.5    3.27    1.50   1521.2   36.3
 117.0     18.20   36.55   26.43   165.5    3.32    1.56   1520.8   37.1
 120.0     18.20   36.59   26.46   162.4    3.37    1.62   1520.9   33.4
 123.0     18.13   36.60   26.48   160.5    3.42    1.68   1520.8   27.3
 126.0     18.08   36.60   26.50   159.1    3.47    1.74   1520.7   26.3
 129.0     18.06   36.62   26.51   157.5    3.52    1.80   1520.7   31.8
 132.0     18.01   36.64   26.55   154.7    3.57    1.87   1520.6   30.9
 135.0     17.96   36.64   26.56   153.3    3.61    1.93   1520.6   19.2
 138.0     17.87   36.62   26.56   153.2    3.66    2.00   1520.3   25.9
 DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA    POT    SOUND   BV
                            T                D      EN     VEL    FRQ
 141.0    17.77   36.62   26.59   150.4    3.70   2.06   1520.1  34.5
 144.0    17.67   36.63   26.62   147.9    3.75   2.13   1519.8  37.3
 147.0    17.52   36.63   26.66   144.2    3.79   2.19   1519.5  31.4
 150.0    17.50   36.64   26.67   143.5    3.84   2.26   1519.5  29.7
 153.0    17.37   36.64   26.70   140.3    3.88   2.32   1519.1  28.5
 156.0    17.31   36.63   26.71   139.9    3.92   2.39   1519.0  37.5
 159.0    17.06   36.63   26.77   133.9    3.96   2.46   1518.3  40.7
 162.0    16.97   36.63   26.79   132.4    4.00   2.52   1518.1  30.6
 165.0    16.80   36.61   26.82   129.8    4.04   2.59   1517.6  32.8
 168.0    16.69   36.61   26.84   127.6    4.08   2.66   1517.3  30.0
 171.0    16.62   36.61   26.86   125.8    4.12   2.72   1517.1  26.5
 174.0    16.54   36.61   26.88   124.5    4.16   2.79   1517.0  24.3
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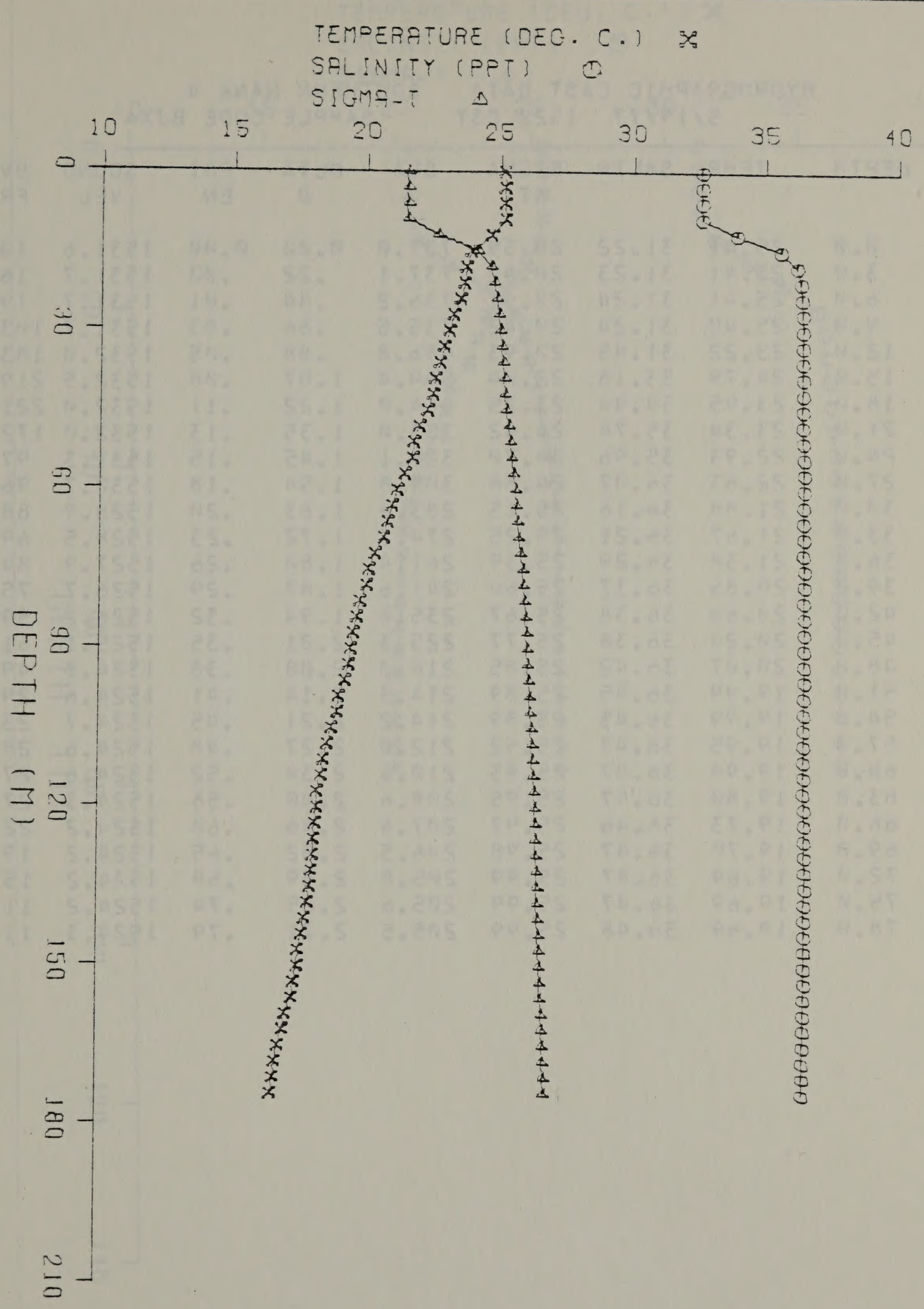
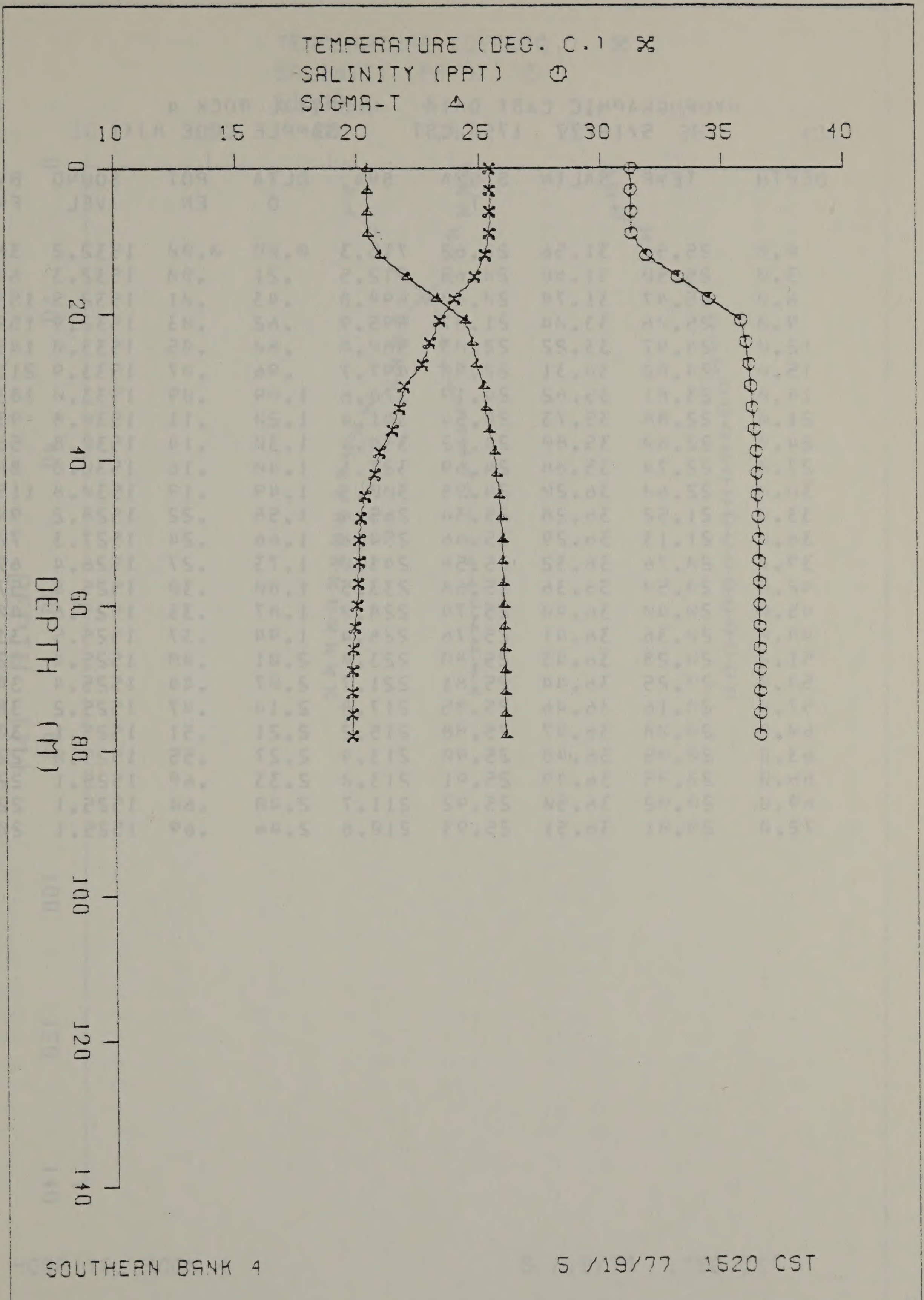


STATION 7 , TRANSECT II 5 /18/77 2205 CST

HYDROGRAPHIC CAST DATA SOUTHERN BANK 4
5/19/77 1520 CST SAMPLE CODE BJXA

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.41	31.22	20.39	737.0	0.00	0.00	1531.6	10.8
3.0	25.41	31.23	20.40	737.1	.22	.00	1531.7	16.5
6.0	25.41	31.24	20.41	736.2	.44	.01	1531.7	19.9
9.0	25.40	31.24	20.42	735.5	.66	.03	1531.7	103.5
12.0	25.22	31.85	20.93	686.8	.88	.05	1532.0	183.0
15.0	24.79	33.15	22.04	580.4	1.07	.08	1532.5	219.4
18.0	23.95	34.44	23.25	464.0	1.22	.11	1532.0	221.8
21.0	23.34	35.74	24.42	353.0	1.35	.13	1532.0	172.8
24.0	22.93	35.96	24.70	326.1	1.45	.15	1531.3	97.0
27.0	22.63	36.07	24.88	309.8	1.54	.18	1530.7	96.1
30.0	21.88	36.16	25.15	283.6	1.63	.20	1528.9	88.0
33.0	21.67	36.21	25.25	274.3	1.72	.23	1528.5	69.8
36.0	21.38	36.29	25.39	261.4	1.80	.26	1527.9	84.4
39.0	20.86	36.37	25.60	241.6	1.87	.29	1526.7	75.9
42.0	20.64	36.38	25.67	235.0	1.94	.32	1526.2	59.7
45.0	20.24	36.38	25.77	225.3	2.01	.35	1525.1	61.2
48.0	20.07	36.42	25.85	218.0	2.08	.38	1524.8	49.3
51.0	19.99	36.45	25.89	214.3	2.14	.41	1524.6	29.5
54.0	19.99	36.45	25.89	214.2	2.21	.45	1524.7	23.5
57.0	19.95	36.47	25.92	212.0	2.27	.48	1524.6	28.7
60.0	19.90	36.47	25.93	210.6	2.34	.52	1524.6	27.9
63.0	19.80	36.47	25.95	208.6	2.40	.56	1524.3	27.0
66.0	19.73	36.46	25.97	207.4	2.46	.60	1524.2	22.5
69.0	19.70	36.47	25.98	206.5	2.52	.65	1524.2	19.8
72.0	19.69	36.47	25.99	205.8	2.59	.69	1524.2	15.2
75.0	19.69	36.47	25.99	205.6	2.65	.74	1524.2	11.0
78.0	19.69	36.48	25.99	205.5	2.71	.79	1524.3	11.0


TEMPERATURE (DEG. C.) ✕
SALINITY (PPT) ⦶
SIGMA-T △
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
SOUTHERN BANK 4
5 /19/77 1520 CST

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            HYDROGRAPHIC CAST DATA    HOSPITAL ROCK 4
                 5/19/77  1750 CST      SAMPLE CODE BJXI

DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA     POT     SOUND   BV
                            T                D      EN       VEL    FRQ

  0.0     25.51   31.56   20.62   715.3    0.00    0.00    1532.2   36.8
  3.0     25.50   31.60   20.65   712.5     .21     .00    1532.3   60.5
  6.0     25.47   31.78   20.80   698.8     .43     .01    1532.5  158.8
  9.0     25.06   33.04   21.87   595.9     .62     .03    1532.9  159.9
 12.0     24.97   33.22   22.03   580.4     .80     .05    1533.0  145.8
 15.0     24.82   34.31   22.90   497.7     .96     .07    1533.9  211.0
 18.0     23.81   35.62   24.19   374.6    1.09     .09    1533.0  183.9
 21.0     22.88   35.73   24.54   341.4    1.20     .11    1530.8   93.6
 24.0     22.80   35.80   24.62   334.4    1.30     .14    1530.8   56.2
 27.0     22.74   35.88   24.69   327.1    1.40     .16    1530.8   86.1
 30.0     22.60   36.20   24.98   300.3    1.49     .19    1530.8  115.7
 33.0     21.52   36.28   25.34   265.4    1.58     .22    1528.2   99.7
 36.0     21.13   36.29   25.46   254.6    1.66     .24    1527.3   70.1
 39.0     20.76   36.32   25.58   243.0    1.73     .27    1526.4   67.9
 42.0     20.50   36.36   25.68   233.5    1.80     .30    1525.8   57.4
 45.0     20.40   36.40   25.74   228.0    1.87     .33    1525.6   40.0
 48.0     20.36   36.41   25.76   226.4    1.94     .37    1525.5   33.5
 51.0     20.28   36.43   25.80   223.0    2.01     .40    1525.4   32.6
 54.0     20.25   36.44   25.81   221.7    2.07     .44    1525.4   34.2
 57.0     20.16   36.46   25.85   217.8    2.14     .47    1525.2   38.0
 60.0     20.08   36.47   25.88   215.2    2.21     .51    1525.1   30.1
 63.0     20.05   36.48   25.90   213.9    2.27     .55    1525.0   22.8
 66.0     20.05   36.49   25.91   213.0    2.33     .60    1525.1   22.8
 69.0     20.02   36.50   25.92   211.7    2.40     .64    1525.1   22.8
 72.0     20.01   36.51   25.93   210.8    2.46     .69    1525.1   20.3
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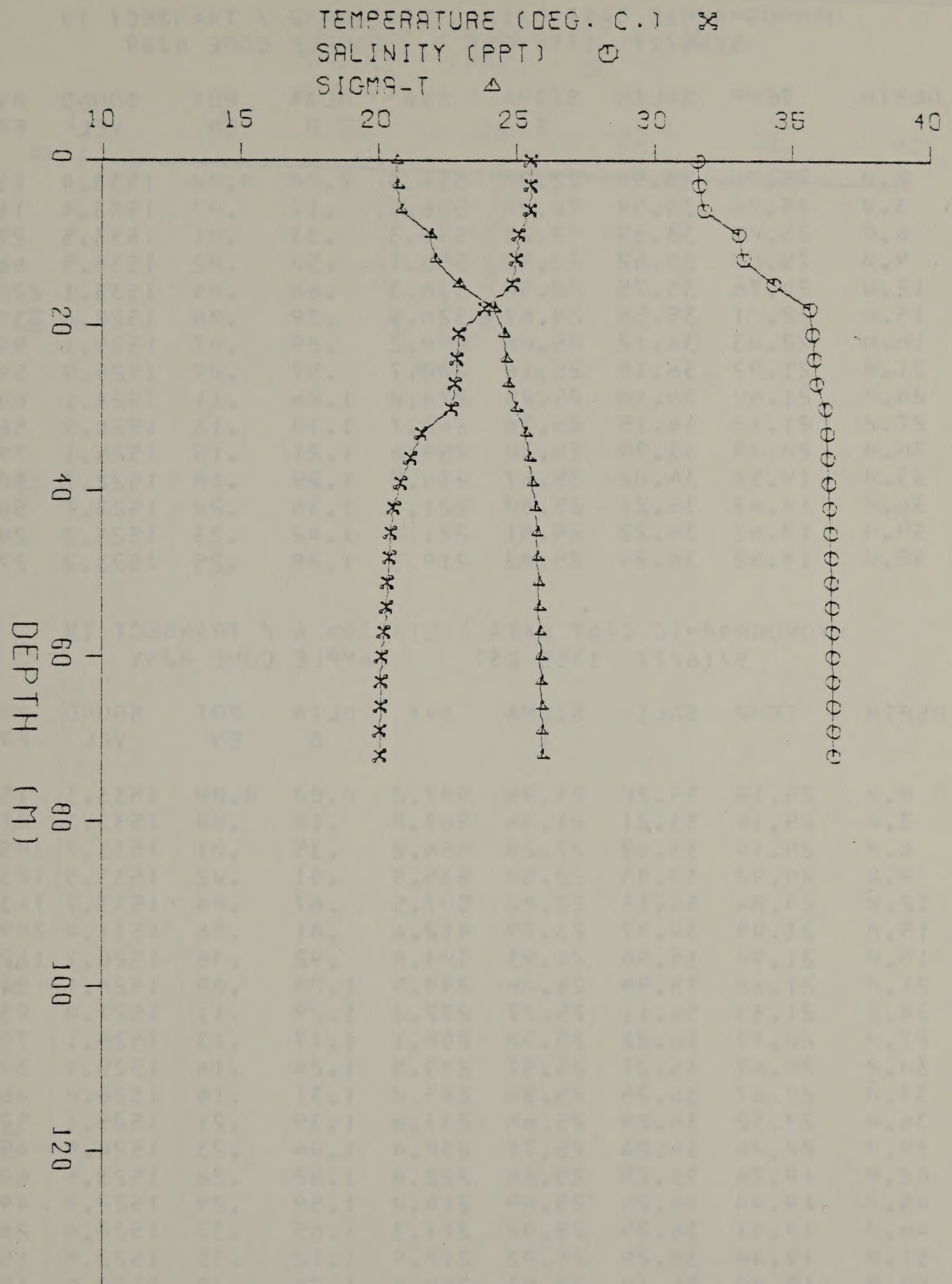


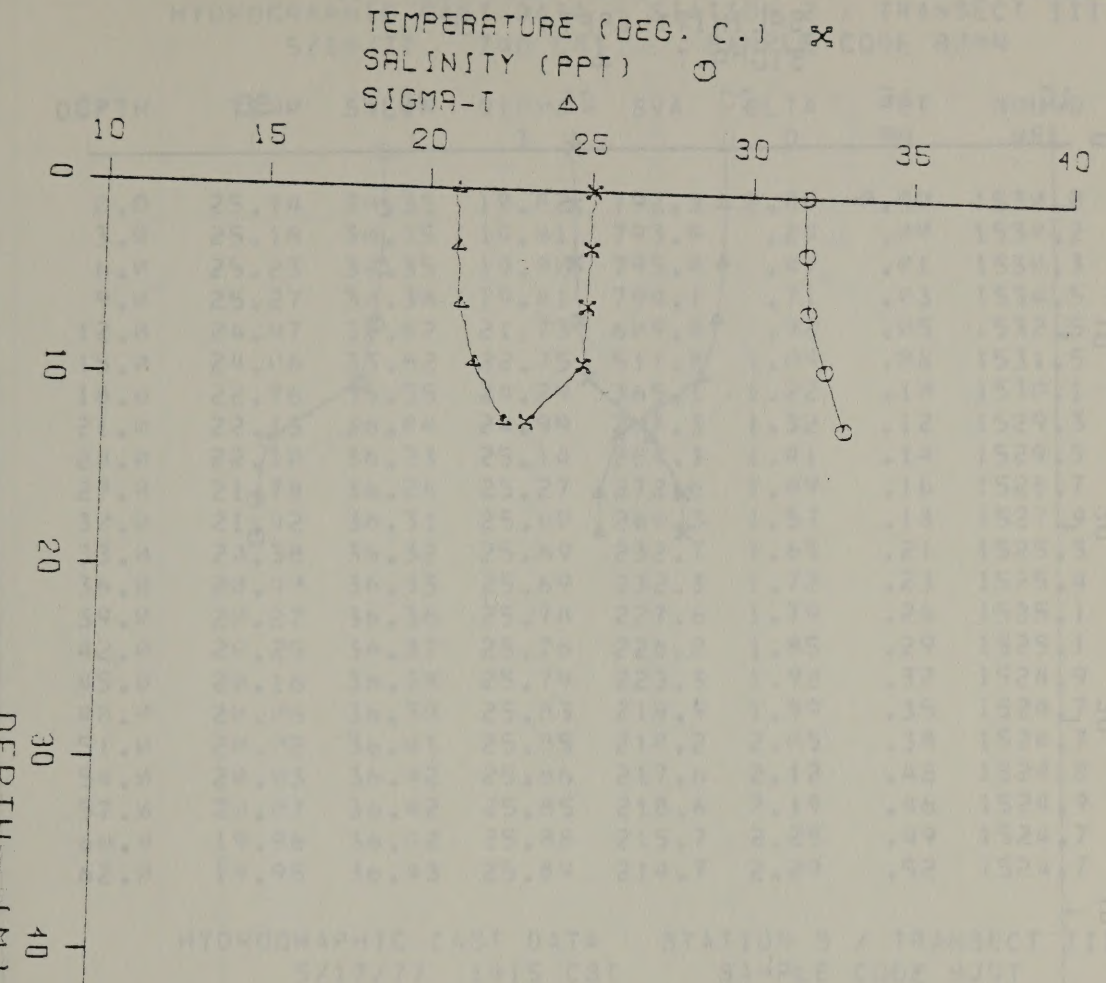
HOSPITAL ROCK 4 5 /19/77 1750 CST

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT IV
5/16/77 1710 CST SAMPLE CODE BJSR

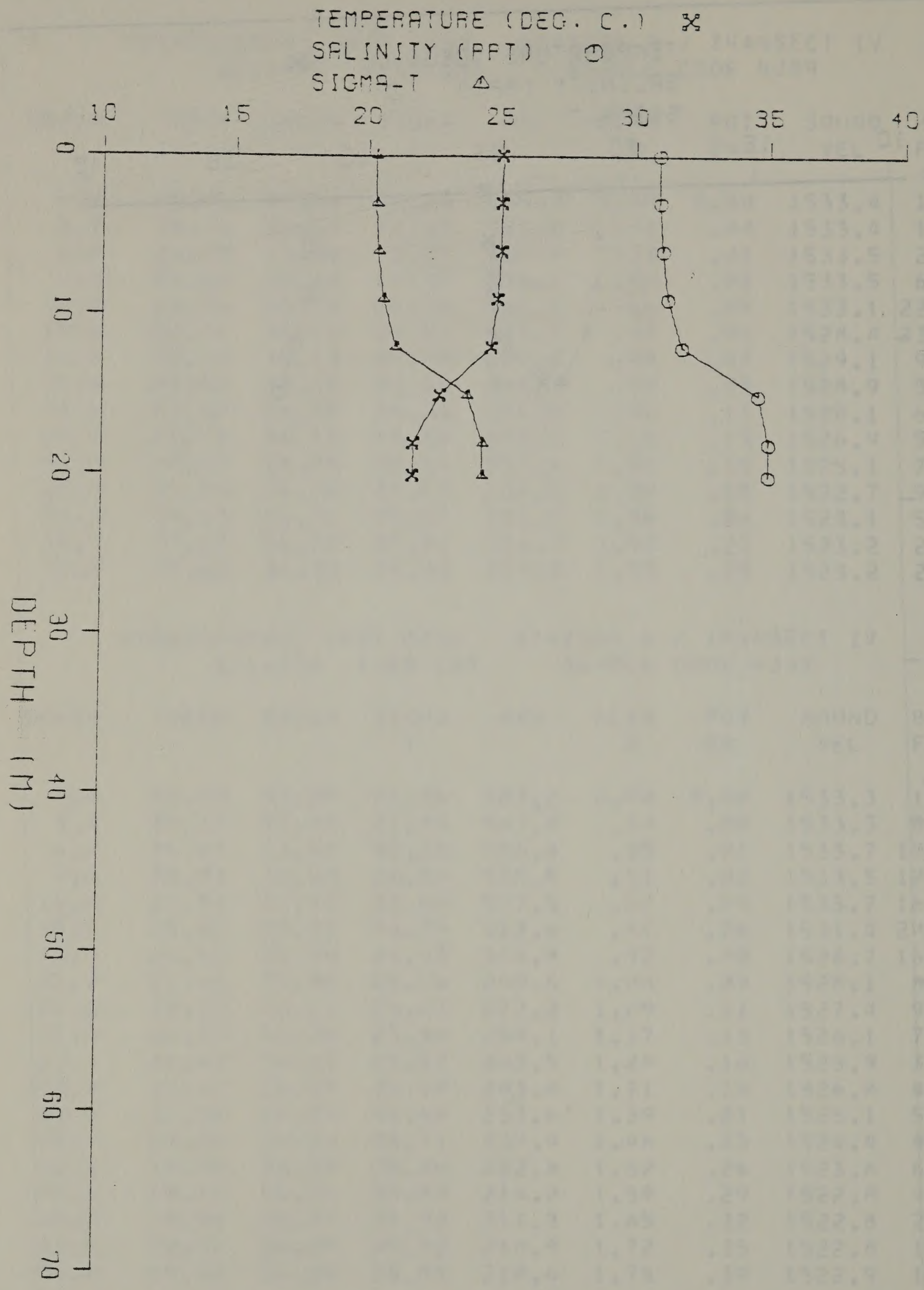
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.06	33.58	22.28	556.3	0.00	0.00	1533.4	11.1
3.0	25.06	33.59	22.28	556.5	.17	.00	1533.4	11.1
6.0	25.05	33.59	22.28	556.3	.33	.01	1533.5	27.9
9.0	25.02	33.62	22.32	553.1	.50	.02	1533.5	66.0
12.0	24.76	33.75	22.50	536.3	.66	.04	1533.1	220.5
15.0	22.01	35.58	24.67	328.5	.79	.06	1528.4	230.7
18.0	22.03	36.12	25.08	290.2	.89	.07	1529.1	99.8
21.0	21.92	36.18	25.16	282.7	.97	.09	1528.9	59.5
24.0	21.60	36.18	25.25	274.0	1.06	.11	1528.1	64.5
27.0	21.12	36.15	25.36	263.7	1.14	.13	1526.9	56.4
30.0	20.49	35.99	25.40	259.6	1.21	.15	1525.1	79.8
33.0	19.58	36.02	25.67	234.5	1.29	.18	1522.7	90.6
36.0	19.63	36.21	25.80	221.8	1.36	.20	1523.1	54.6
39.0	19.62	36.22	25.81	221.0	1.42	.23	1523.2	24.2
42.0	19.62	36.24	25.83	219.3	1.49	.25	1523.2	27.3

HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT IV
5/16/77 1455 CST SAMPLE CODE BJWY

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.18	33.20	21.96	587.2	0.00	0.00	1533.3	15.8
3.0	25.18	33.21	21.96	587.0	.18	.00	1533.3	81.6
6.0	25.14	33.62	22.28	556.8	.35	.01	1533.7	105.6
9.0	24.92	33.83	22.50	535.5	.51	.02	1533.5	103.4
12.0	24.84	34.18	22.80	507.5	.67	.04	1533.7	163.2
15.0	23.49	34.97	23.79	412.6	.81	.06	1531.4	209.5
18.0	21.98	35.90	24.93	304.8	.92	.08	1528.7	162.6
21.0	21.68	35.98	25.08	290.5	1.00	.09	1528.1	84.3
24.0	21.33	36.11	25.27	272.2	1.09	.11	1527.4	93.8
27.0	20.77	36.22	25.50	250.1	1.17	.13	1526.1	79.1
30.0	20.67	36.27	25.57	243.5	1.24	.16	1525.9	39.9
33.0	20.67	36.28	25.58	243.0	1.31	.18	1526.0	46.8
36.0	20.32	36.29	25.68	233.6	1.39	.21	1525.1	52.7
39.0	20.06	36.24	25.71	230.4	1.46	.23	1524.4	49.7
42.0	19.76	36.25	25.80	222.4	1.52	.26	1523.6	60.0
45.0	19.44	36.26	25.89	214.0	1.59	.29	1522.8	49.5
48.0	19.41	36.29	25.92	211.3	1.65	.32	1522.8	26.9
51.0	19.40	36.29	25.92	210.9	1.72	.35	1522.8	15.7
54.0	19.40	36.30	25.93	210.4	1.78	.39	1522.9	15.7



STATION 4 / TRANSECT III 5 /17/77 1400 CST



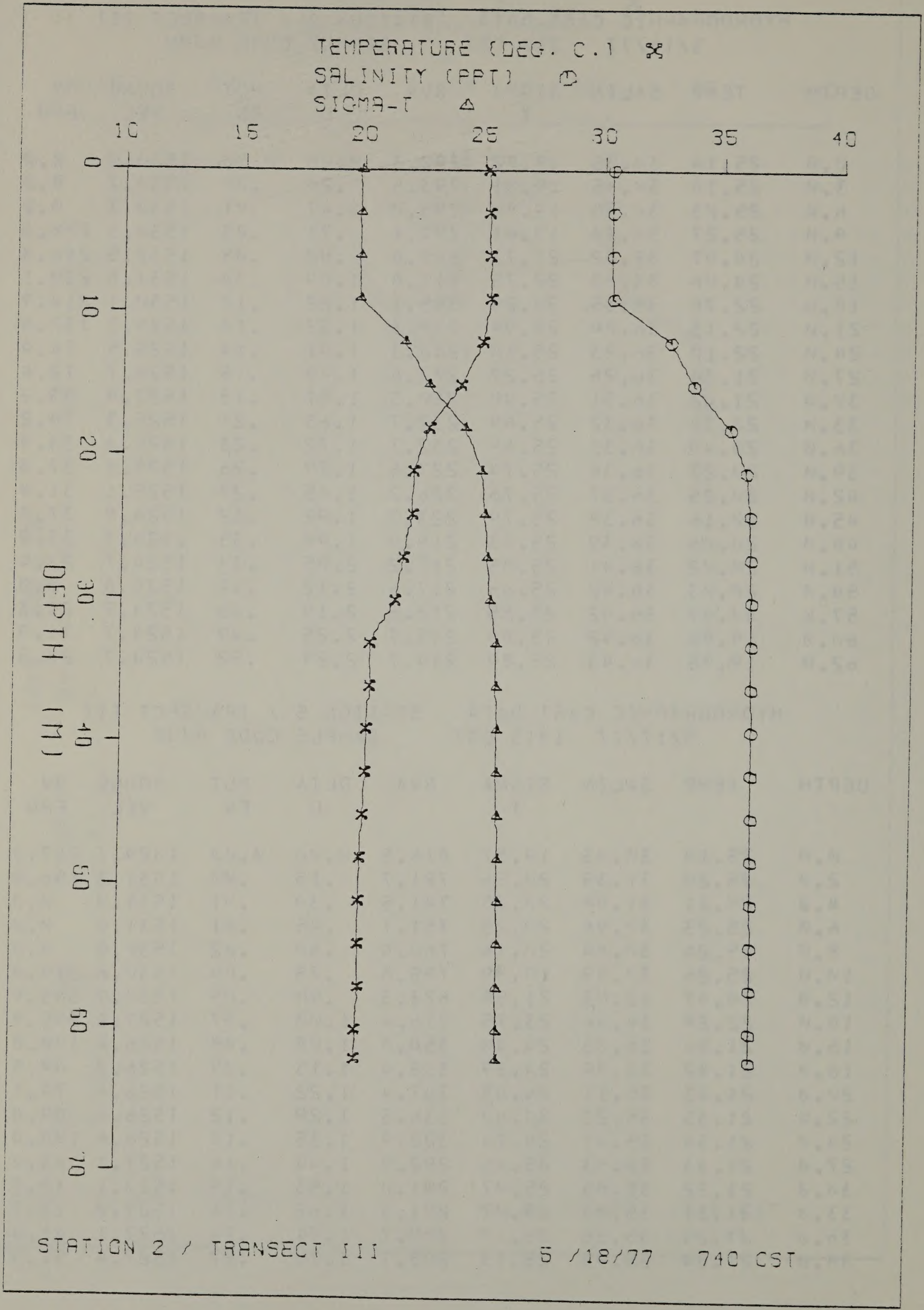
STATION 1 / TRANSECT III 5 /17/77 1545 CST

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT III
5/18/77 740 CST SAMPLE CODE BJMN

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.14	30.35	19.82	792.3	0.00	0.00	1530.0	0.0
3.0	25.18	30.35	19.81	793.8	.24	.00	1530.2	0.0
6.0	25.23	30.35	19.80	795.0	.47	.01	1530.3	0.0
9.0	25.27	30.38	19.81	794.1	.71	.03	1530.5	200.0
12.0	24.97	32.82	21.73	609.8	.92	.05	1532.5	246.8
15.0	24.06	33.82	22.75	511.8	1.09	.08	1531.5	230.1
18.0	22.76	35.35	24.29	365.1	1.22	.10	1530.1	214.9
21.0	22.13	36.04	24.99	298.3	1.32	.12	1529.3	132.4
24.0	22.10	36.23	25.14	284.3	1.41	.14	1529.5	74.9
27.0	21.74	36.26	25.27	272.6	1.49	.16	1528.7	72.4
30.0	21.42	36.31	25.40	260.3	1.57	.18	1527.9	93.2
33.0	20.38	36.32	25.69	232.7	1.65	.21	1525.3	78.2
36.0	20.40	36.33	25.69	232.3	1.72	.23	1525.4	33.9
39.0	20.27	36.36	25.74	227.6	1.79	.26	1525.1	37.0
42.0	20.25	36.37	25.76	226.2	1.85	.29	1525.1	31.4
45.0	20.16	36.38	25.79	223.3	1.92	.32	1524.9	37.8
48.0	20.06	36.39	25.83	219.9	1.99	.35	1524.7	33.9
51.0	20.02	36.41	25.85	218.2	2.05	.38	1524.7	23.4
54.0	20.03	36.42	25.86	217.6	2.12	.42	1524.8	0.0
57.0	20.07	36.42	25.85	218.6	2.19	.46	1524.9	21.3
60.0	19.96	36.42	25.88	215.7	2.25	.49	1524.7	31.9
62.0	19.95	36.43	25.89	214.7	2.29	.52	1524.7	26.5

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT III
5/17/77 1815 CST SAMPLE CODE BJQT

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.18	30.03	19.57	816.5	0.00	0.00	1529.7	247.9
2.0	25.20	31.35	20.56	721.7	.15	.00	1531.3	156.0
4.0	25.21	31.08	20.35	741.5	.30	.01	1531.0	0.0
6.0	25.23	30.96	20.25	751.1	.45	.01	1531.0	0.0
8.0	25.24	30.84	20.16	760.4	.60	.02	1530.9	0.0
10.0	25.26	30.49	19.89	785.8	.75	.04	1530.6	210.8
12.0	24.47	32.43	21.59	623.3	.90	.05	1530.9	345.9
14.0	22.29	34.46	23.75	416.4	1.00	.07	1527.8	295.0
16.0	21.50	35.03	24.40	354.8	1.08	.08	1526.4	140.8
18.0	21.42	34.99	24.39	355.4	1.15	.09	1526.2	49.5
20.0	21.43	35.11	24.48	347.4	1.22	.11	1526.4	79.1
22.0	21.35	35.23	24.60	336.3	1.29	.12	1526.4	89.4
24.0	21.34	35.41	24.74	322.9	1.35	.14	1526.6	104.4
27.0	21.33	35.83	25.05	292.9	1.44	.16	1527.1	83.4
30.0	21.32	35.85	25.07	291.0	1.53	.19	1527.1	19.5
33.0	21.31	35.84	25.07	291.3	1.62	.21	1527.2	18.3
36.0	21.25	35.85	25.09	289.7	1.71	.24	1527.1	41.4
38.0	21.34	35.93	25.13	285.7	1.76	.27	1527.4	51.5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SALINITY (PPT) ⊕
SIGMA-T △
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15
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50
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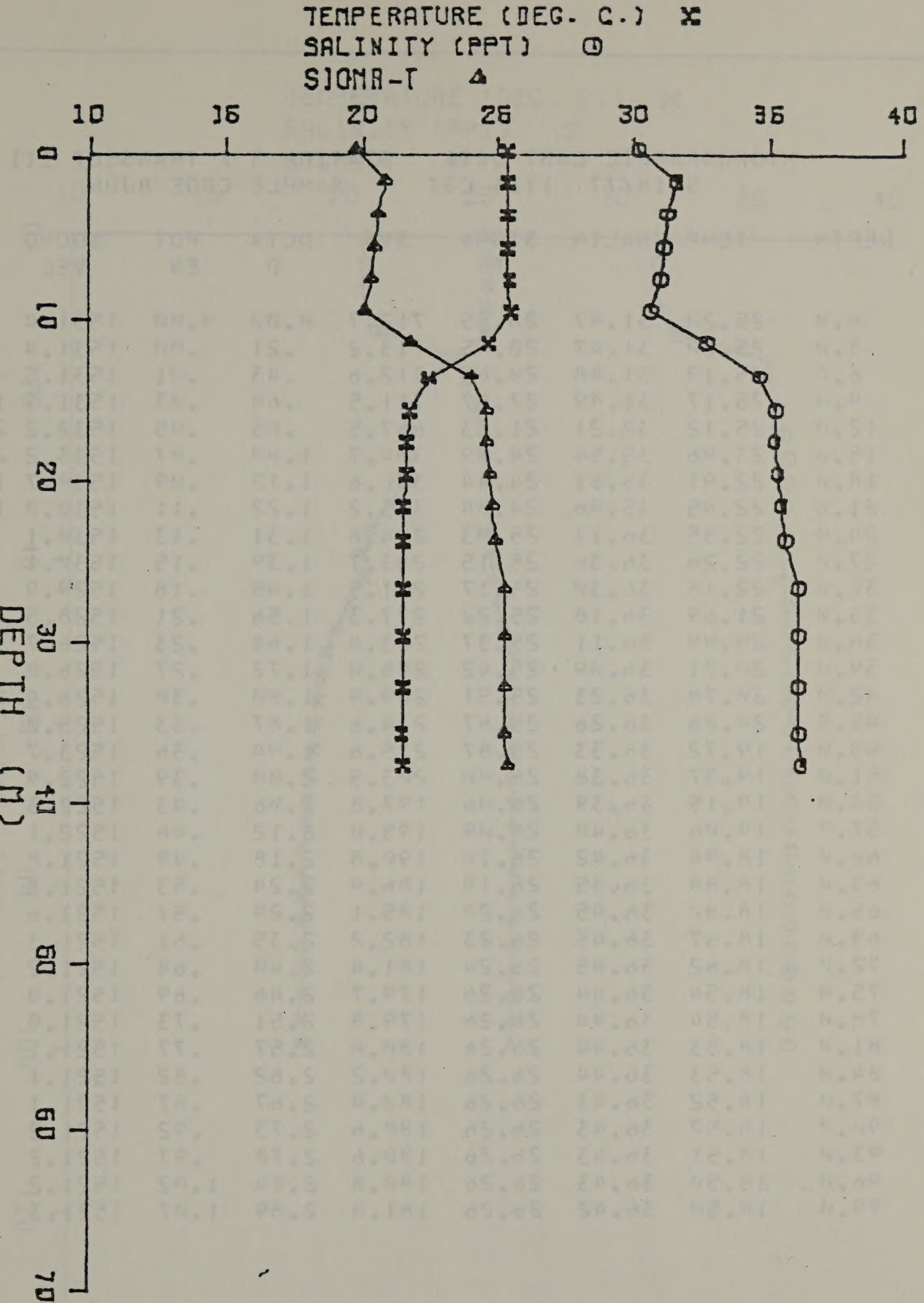
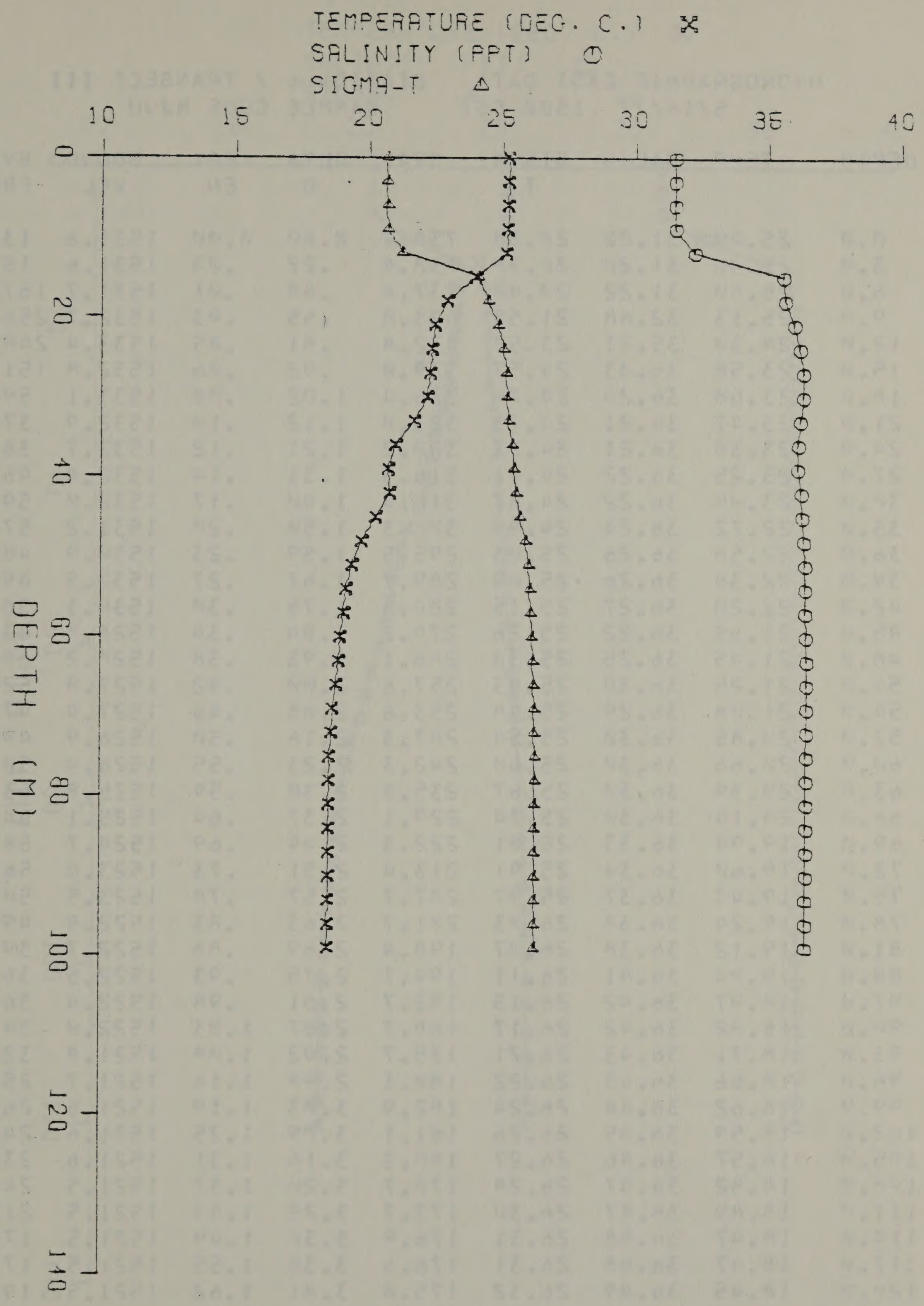
70
DEPTH (M)
STATION 2 / TRANSECT III
5 /18/77 740 CST



STATION 5 / TRANSECT III 5 /17/77 1815 CST

HYDROGRAPHIC CAST DATA   STATION 3 / TRANSECT III
5/18/77 1135 CST   SAMPLE CODE BJON

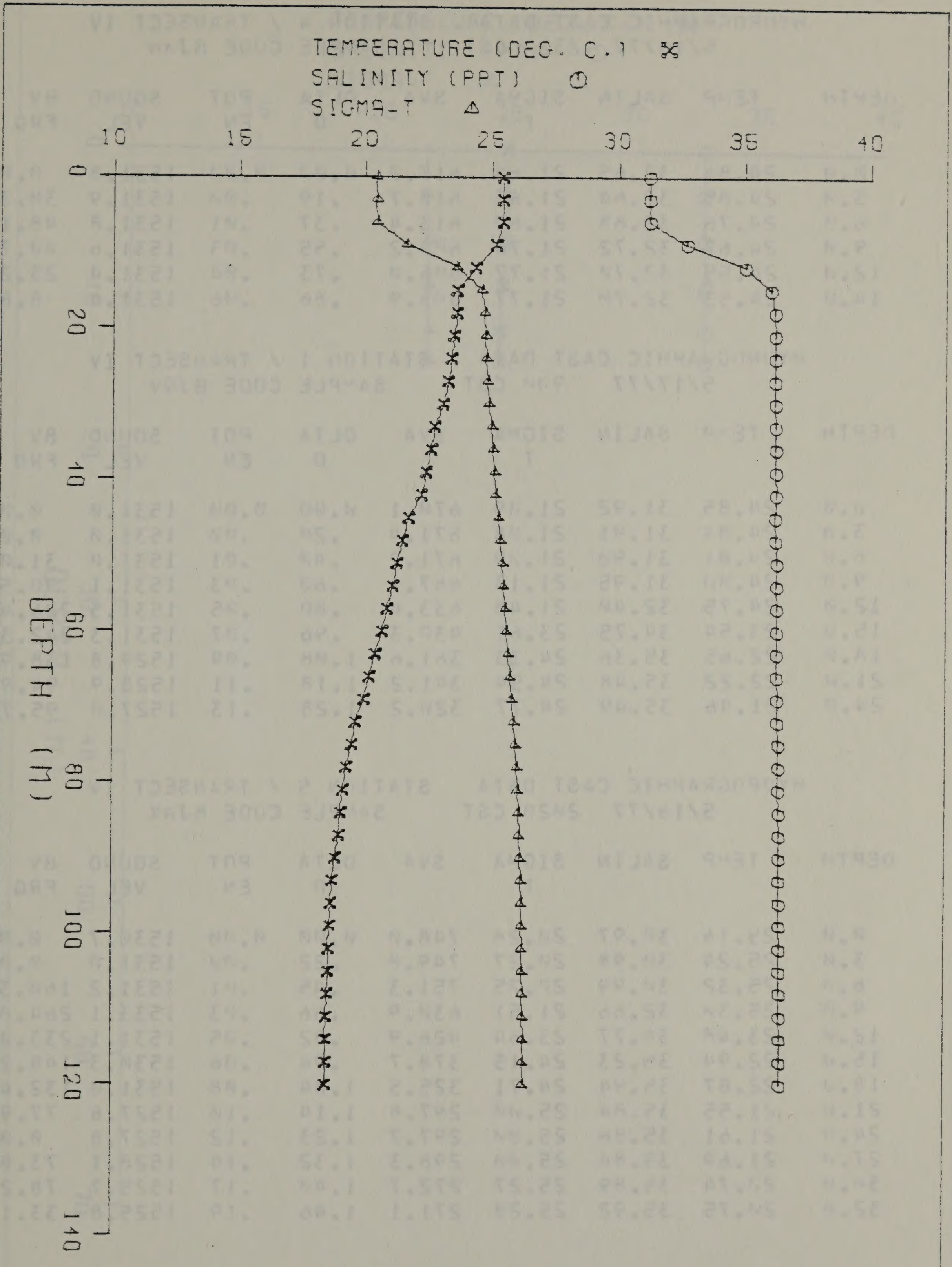
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.20	31.47	20.65	712.7	0.00	0.00	1531.4	0.0
3.0	25.20	31.47	20.65	713.2	.21	.00	1531.4	11.2
6.0	25.19	31.48	20.65	712.6	.43	.01	1531.5	20.2
9.0	25.17	31.49	20.67	711.5	.64	.03	1531.5	109.2
12.0	25.12	32.21	21.23	657.5	.85	.05	1532.2	265.9
15.0	23.96	35.54	24.09	384.7	1.00	.07	1533.2	257.5
18.0	22.91	35.61	24.44	350.6	1.12	.09	1530.7	124.5
21.0	22.45	35.96	24.84	313.2	1.22	.11	1530.0	110.1
24.0	22.35	36.17	25.03	294.8	1.31	.13	1530.1	80.2
27.0	22.28	36.30	25.15	283.7	1.39	.15	1530.1	54.2
30.0	22.18	36.30	25.17	281.5	1.48	.18	1529.9	38.1
33.0	21.69	36.18	25.22	277.3	1.56	.21	1528.5	63.0
36.0	20.99	36.11	25.37	263.4	1.64	.23	1526.7	64.8
39.0	20.71	36.09	25.42	258.0	1.72	.27	1526.0	54.5
42.0	20.78	36.23	25.51	249.9	1.80	.30	1526.4	71.6
45.0	20.26	36.26	25.67	234.6	1.87	.33	1525.0	86.4
48.0	19.72	36.33	25.87	215.6	1.94	.36	1523.7	82.4
51.0	19.37	36.38	26.00	203.5	2.00	.39	1522.9	62.5
54.0	19.15	36.39	26.06	197.8	2.06	.43	1522.3	43.3
57.0	19.06	36.40	26.09	195.0	2.12	.46	1522.1	39.3
60.0	18.94	36.42	26.14	190.8	2.18	.49	1521.8	42.5
63.0	18.88	36.45	26.18	186.9	2.24	.53	1521.8	35.7
66.0	18.80	36.45	26.20	185.1	2.29	.57	1521.6	32.7
69.0	18.67	36.45	26.23	182.2	2.35	.61	1521.3	29.2
72.0	18.62	36.45	26.24	181.4	2.40	.64	1521.2	24.3
75.0	18.54	36.44	26.26	179.7	2.46	.69	1521.0	19.5
78.0	18.54	36.44	26.26	179.8	2.51	.73	1521.0	0.0
81.0	18.53	36.44	26.26	180.0	2.57	.77	1521.1	0.0
84.0	18.53	36.44	26.26	180.2	2.62	.82	1521.1	0.0
87.0	18.52	36.43	26.26	180.4	2.67	.87	1521.1	0.0
90.0	18.52	36.43	26.26	180.6	2.73	.92	1521.2	3.8
93.0	18.51	36.43	26.26	180.6	2.78	.97	1521.2	3.8
96.0	18.50	36.43	26.26	180.8	2.84	1.02	1521.2	0.0
99.0	18.50	36.42	26.26	181.0	2.89	1.07	1521.3	0.0



STATION 3 / TRANSECT III 5 /18/77 1135 CST

HYDROGRAPHIC CAST DATA   STATION 6 / TRANSECT III
5/18/77 1500 CST   SAMPLE CODE BJQU

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.40	31.20	20.38	738.4	0.00	0.00	1531.6	13.6
3.0	25.40	31.20	20.38	738.4	.22	.00	1531.6	18.4
6.0	25.40	31.22	20.40	737.4	.44	.01	1531.7	157.4
9.0	25.13	32.68	21.58	623.8	.65	.03	1532.7	256.7
12.0	24.30	35.01	23.58	432.4	.81	.05	1533.4	248.2
15.0	23.58	36.03	24.57	339.0	.92	.06	1532.8	151.6
18.0	23.58	36.20	24.70	326.4	1.02	.08	1533.1	59.2
21.0	23.47	36.21	24.73	323.0	1.12	.10	1532.9	37.3
24.0	23.38	36.21	24.77	320.2	1.21	.12	1532.7	38.8
27.0	23.25	36.22	24.81	316.3	1.31	.14	1532.4	46.5
30.0	23.05	36.22	24.87	310.4	1.40	.17	1532.0	59.2
33.0	22.72	36.24	24.98	300.3	1.50	.20	1531.2	57.3
36.0	22.58	36.26	25.03	295.5	1.59	.23	1530.9	48.4
39.0	22.38	36.26	25.09	289.7	1.67	.27	1530.5	49.1
42.0	22.20	36.27	25.15	284.6	1.76	.30	1530.1	58.4
45.0	21.69	36.22	25.26	274.2	1.84	.34	1528.8	63.6
48.0	21.45	36.25	25.34	266.1	1.93	.38	1528.2	60.3
51.0	21.25	36.30	25.43	257.6	2.00	.42	1527.8	52.5
54.0	21.08	36.29	25.48	253.6	2.08	.46	1527.4	47.8
57.0	20.85	36.30	25.54	247.3	2.16	.50	1526.9	49.8
60.0	20.66	36.30	25.60	242.3	2.23	.55	1526.4	50.3
63.0	20.39	36.30	25.67	235.8	2.30	.59	1525.8	53.9
66.0	20.14	36.30	25.74	229.1	2.37	.64	1525.1	54.5
69.0	19.94	36.33	25.81	222.3	2.44	.69	1524.7	58.6
72.0	19.60	36.34	25.91	213.4	2.51	.73	1523.8	56.6
75.0	19.47	36.37	25.97	207.7	2.57	.78	1523.5	50.9
78.0	19.24	36.38	26.03	201.7	2.63	.83	1522.9	45.3
81.0	19.12	36.38	26.07	198.4	2.69	.88	1522.7	39.5
84.0	19.04	36.41	26.11	194.7	2.75	.93	1522.5	36.0
87.0	18.97	36.42	26.13	192.7	2.81	.98	1522.4	36.7
90.0	18.82	36.42	26.17	188.7	2.87	1.03	1522.0	39.4
93.0	18.71	36.43	26.21	185.7	2.92	1.08	1521.8	32.0
96.0	18.66	36.43	26.22	184.1	2.98	1.14	1521.7	25.6
99.0	18.62	36.44	26.24	182.9	3.03	1.19	1521.6	26.6
102.0	18.59	36.45	26.26	181.1	3.09	1.25	1521.6	24.6
105.0	18.57	36.46	26.27	180.3	3.14	1.31	1521.6	23.5
108.0	18.52	36.47	26.28	178.7	3.20	1.37	1521.5	24.5
111.0	18.49	36.47	26.30	177.7	3.25	1.43	1521.5	21.1
114.0	18.47	36.48	26.31	176.9	3.30	1.49	1521.5	17.0
117.0	18.47	36.48	26.31	176.6	3.36	1.55	1521.5	17.0
120.0	18.45	36.49	26.32	175.8	3.41	1.62	1521.5	19.8



STATION 6 / TRANSECT III 5 /18/77 1500 CST

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           HYDROGRAPHIC CAST DATA    STATION 4 / TRANSECT IV
                    5/16/77  2320 CST      SAMPLE CODE BJWW

DEPTH       TEMP   SALIN   SIGMA      SVA    DLTA     POT     SOUND   BV
                             T                 D       EN       VEL   FRQ

  0.0      24.84   32.65   21.64    617.2   0.00    0.00    1531.8    0.0
  3.0      24.85   32.64   21.63    618.7    .19     .00    1531.9   30.3
  6.0      24.76   32.68   21.69    613.4    .37     .01    1531.8   48.1
  9.0      24.67   32.72   21.74    608.2    .55     .03    1531.6   40.7
 12.0      24.55   32.70   21.77    606.0    .73     .04    1531.4   23.2
 14.0      24.53   32.70   21.77    605.9    .86     .06    1531.4    8.6
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           HYDROGRAPHIC CAST DATA    STATION 1 / TRANSECT IV
                    5/17/77   900 CST      SAMPLE CODE BJQV

DEPTH       TEMP   SALIN   SIGMA      SVA    DLTA     POT     SOUND   BV
                             T                 D       EN       VEL   FRQ

  0.0      24.85   31.92   21.09    670.1   0.00    0.00    1531.0    0.0
  3.0      24.84   31.91   21.08    671.4    .20     .00    1531.0    0.0
  6.0      24.81   31.90   21.09    671.2    .40     .01    1531.0   31.0
  9.0      24.80   31.95   21.13    667.1    .60     .03    1531.1   90.5
 12.0      24.75   32.40   21.48    633.4    .80     .05    1531.5  226.4
 15.0      23.54   34.75   23.61    430.3    .96     .07    1531.3  242.3
 18.0      22.65   35.36   24.33    361.6   1.08     .09    1529.8  138.9
 21.0      22.22   35.48   24.54    341.2   1.18     .11    1528.9   94.9
 24.0      21.46   35.49   24.77    320.2   1.28     .13    1527.0   95.7
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           HYDROGRAPHIC CAST DATA    STATION 5 / TRANSECT IV
                    5/16/77  2020 CST      SAMPLE CODE BJWX

DEPTH       TEMP   SALIN   SIGMA      SVA    DLTA     POT     SOUND   BV
                             T                 D       EN       VEL   FRQ

  0.0      25.16   30.97   20.28    748.0   0.00    0.00    1530.7    0.0
  3.0      25.24   30.98   20.27    749.8    .22     .00    1531.0    0.0
  6.0      25.32   30.99   20.25    751.3    .45     .01    1531.2  160.3
  9.0      25.30   32.66   21.51    630.9    .66     .03    1533.1  264.8
 12.0      23.48   34.77   23.64    426.9    .82     .05    1531.1  233.4
 15.0      22.94   35.23   24.15    378.7    .94     .06    1530.3  148.2
 18.0      22.87   35.94   24.71    325.5   1.04     .08    1531.0  132.4
 21.0      21.55   35.84   25.00    297.8   1.14     .10    1527.6   77.9
 24.0      21.61   35.86   25.00    297.7   1.23     .12    1527.8    0.0
 27.0      21.69   35.88   25.00    298.3   1.32     .14    1528.1   73.8
 30.0      20.74   35.89   25.27    272.7   1.40     .17    1525.7   78.2
 32.0      20.75   35.92   25.28    271.1   1.46     .19    1525.8   33.1
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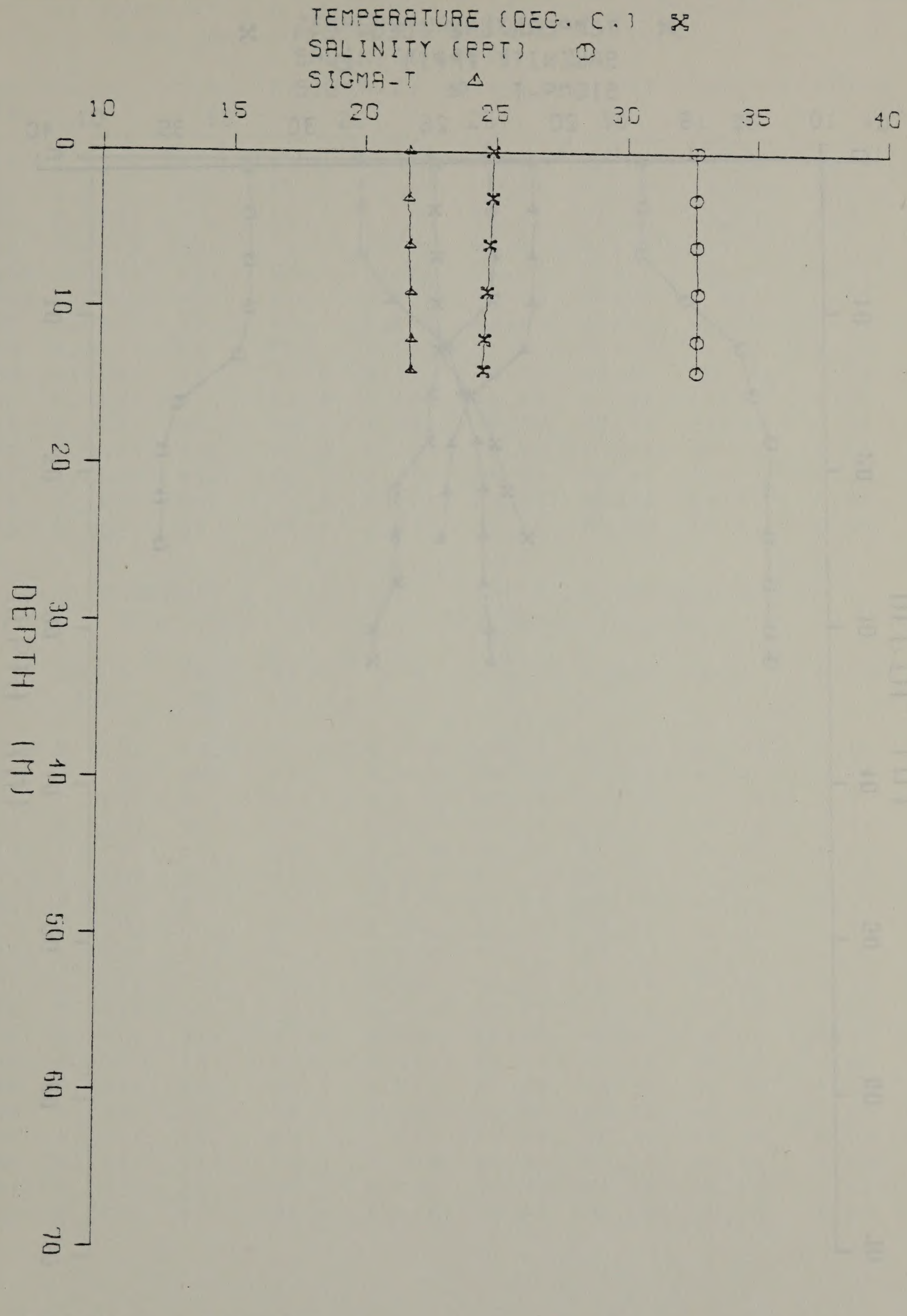
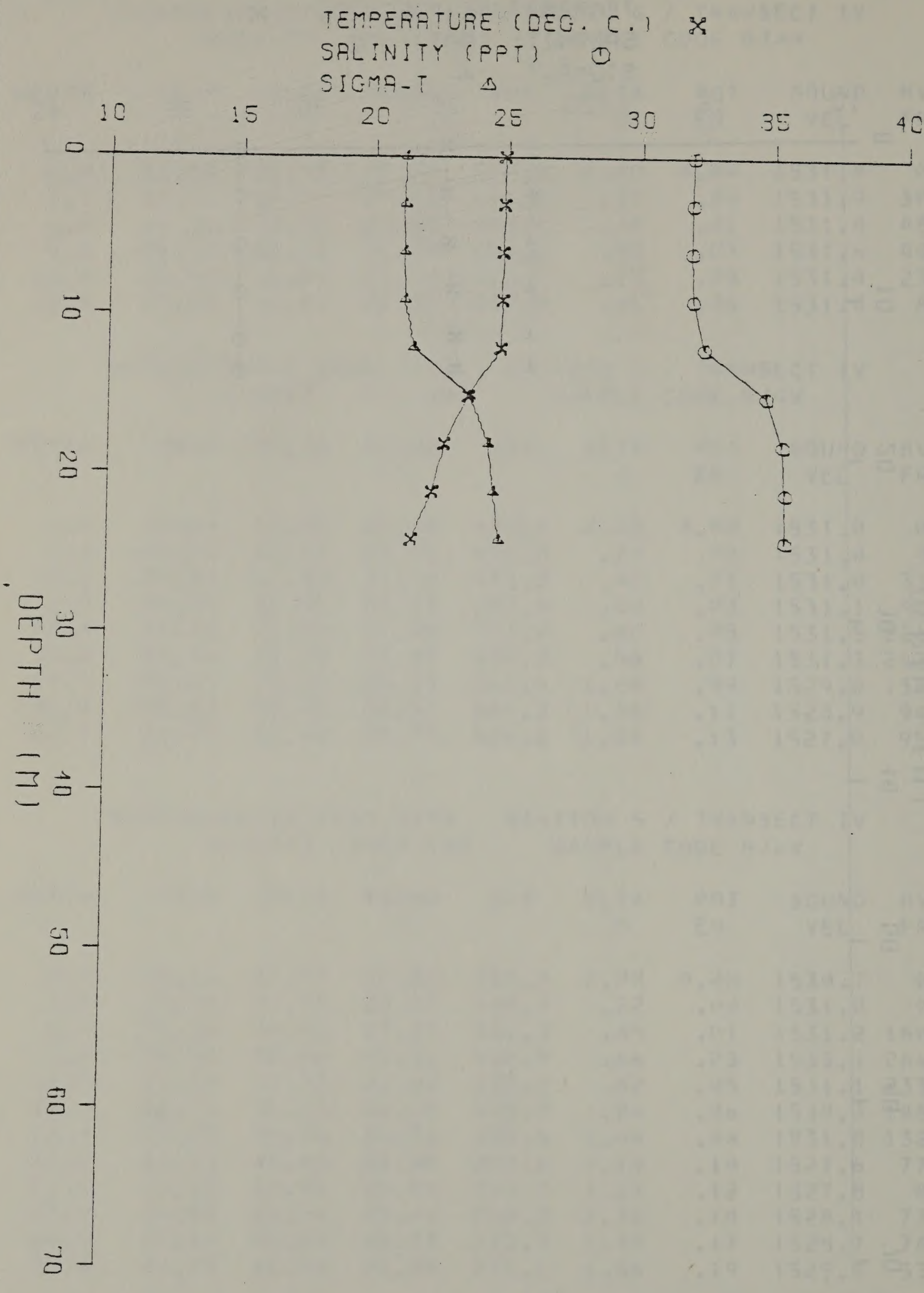
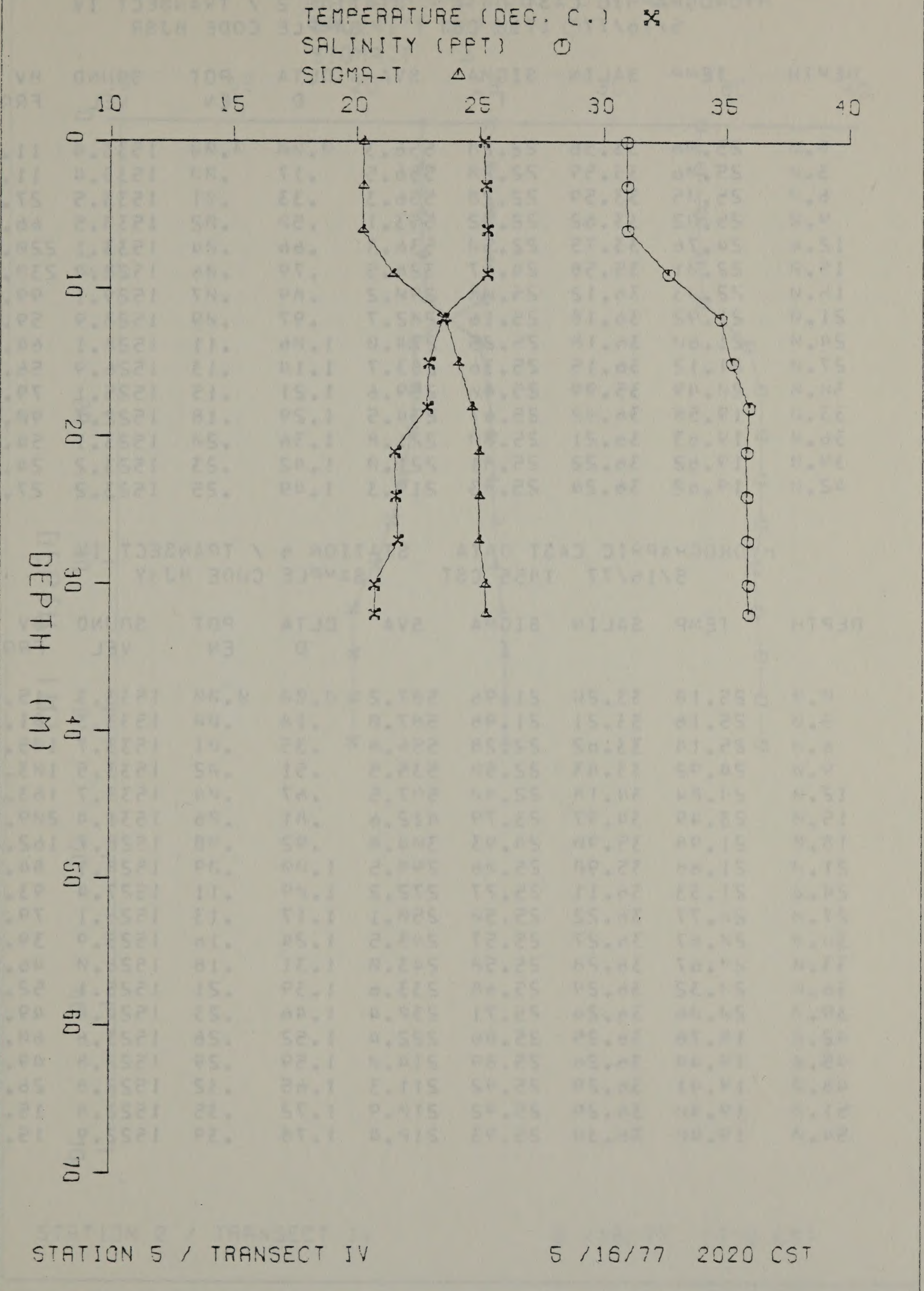


STATION 4 / TRANSECT IV 5 /16/77 2320 CST



STATION 1 / TRANSECT IV 5 /17/77 900 CST



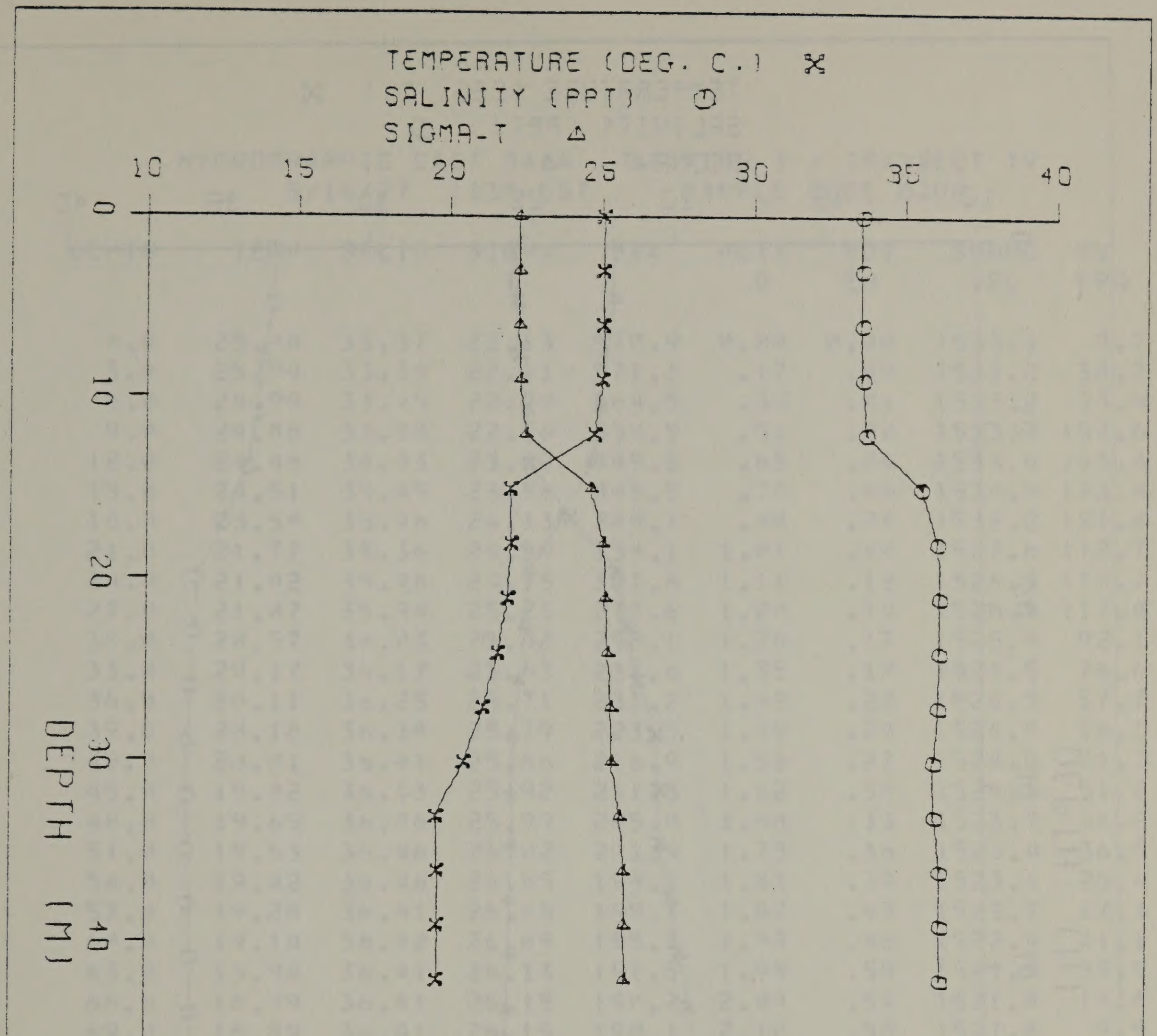
STATION 5 / TRANSECT IV 5 /16/77 2020 CST

HYDROGRAPHIC CAST DATA   STATION 2 / TRANSECT IV
5/16/77 1710 CST   SAMPLE CODE BJSR

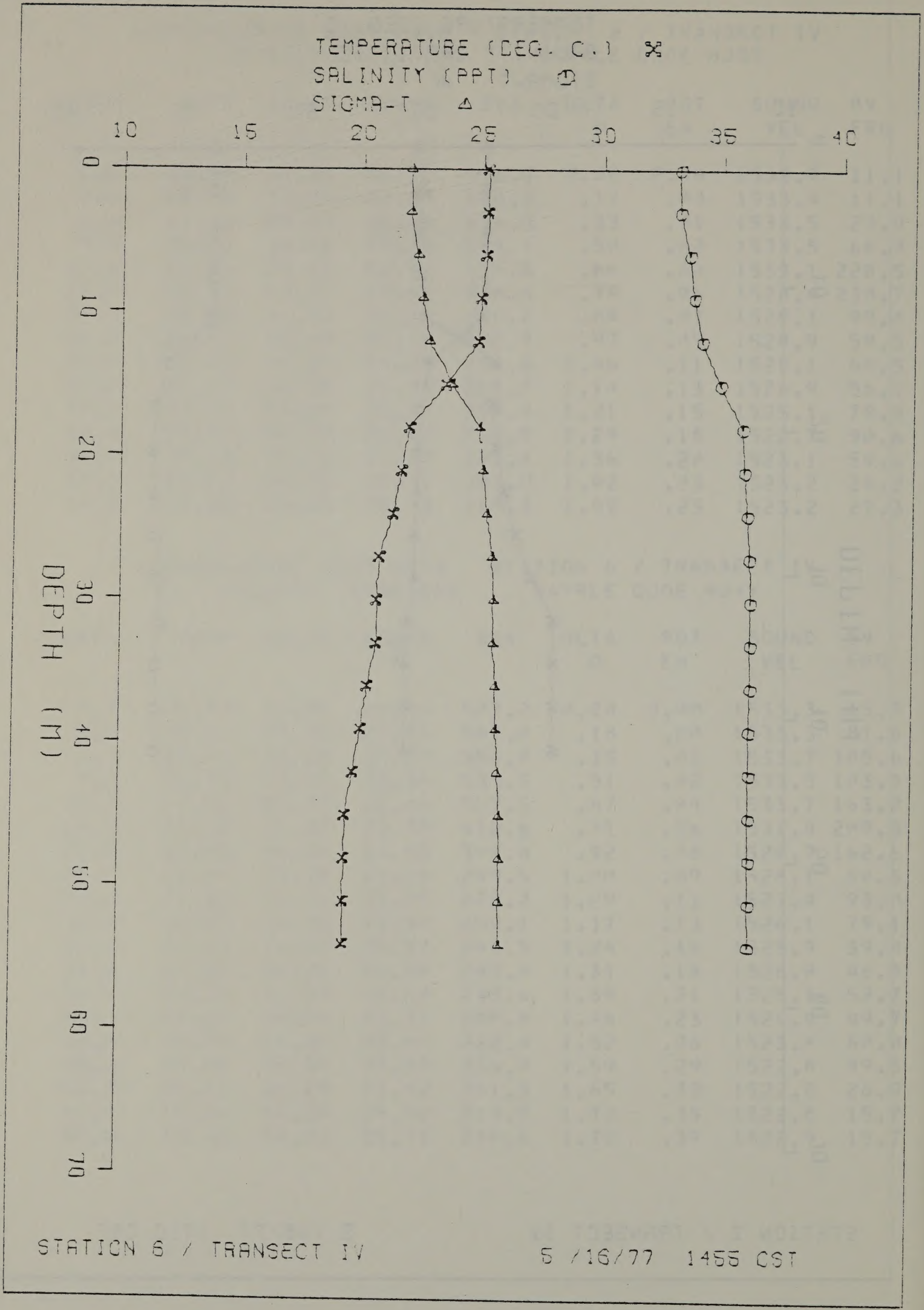
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.06	33.58	22.28	556.3	0.00	0.00	1533.4	11.1
3.0	25.06	33.59	22.28	556.5	.17	.00	1533.4	11.1
6.0	25.05	33.59	22.28	556.3	.33	.01	1533.5	27.9
9.0	25.02	33.62	22.32	553.1	.50	.02	1533.5	66.0
12.0	24.76	33.75	22.50	536.3	.66	.04	1533.1	220.5
15.0	22.01	35.58	24.67	328.5	.79	.06	1528.4	230.7
18.0	22.03	36.12	25.08	290.2	.89	.07	1529.1	99.8
21.0	21.92	36.18	25.16	282.7	.97	.09	1528.9	59.5
24.0	21.60	36.18	25.25	274.0	1.06	.11	1528.1	64.5
27.0	21.12	36.15	25.36	263.7	1.14	.13	1526.9	56.4
30.0	20.49	35.99	25.40	259.6	1.21	.15	1525.1	79.8
33.0	19.58	36.02	25.67	234.5	1.29	.18	1522.7	90.6
36.0	19.63	36.21	25.80	221.8	1.36	.20	1523.1	54.6
39.0	19.62	36.22	25.81	221.0	1.42	.23	1523.2	24.2
42.0	19.62	36.24	25.83	219.3	1.49	.25	1523.2	27.3

HYDROGRAPHIC CAST DATA   STATION 6 / TRANSECT IV
5/16/77 1455 CST   SAMPLE CODE BJWY

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.18	33.20	21.96	587.2	0.00	0.00	1533.3	15.8
3.0	25.18	33.21	21.96	587.0	.18	.00	1533.3	81.6
6.0	25.14	33.62	22.28	556.8	.35	.01	1533.7	105.6
9.0	24.92	33.83	22.50	535.5	.51	.02	1533.5	103.4
12.0	24.84	34.18	22.80	507.5	.67	.04	1533.7	163.2
15.0	23.49	34.97	23.79	412.6	.81	.06	1531.4	209.5
18.0	21.98	35.90	24.93	304.8	.92	.08	1528.7	162.6
21.0	21.68	35.98	25.08	290.5	1.00	.09	1528.1	84.3
24.0	21.33	36.11	25.27	272.2	1.09	.11	1527.4	93.8
27.0	20.77	36.22	25.50	250.1	1.17	.13	1526.1	79.1
30.0	20.67	36.27	25.57	243.5	1.24	.16	1525.9	39.9
33.0	20.67	36.28	25.58	243.0	1.31	.18	1526.0	46.8
36.0	20.32	36.29	25.68	233.6	1.39	.21	1525.1	52.7
39.0	20.06	36.24	25.71	230.4	1.46	.23	1524.4	49.7
42.0	19.76	36.25	25.80	222.4	1.52	.26	1523.6	60.0
45.0	19.44	36.26	25.89	214.0	1.59	.29	1522.8	49.5
48.0	19.41	36.29	25.92	211.3	1.65	.32	1522.8	26.9
51.0	19.40	36.29	25.92	210.9	1.72	.35	1522.8	15.7
54.0	19.40	36.30	25.93	210.4	1.78	.39	1522.9	15.7



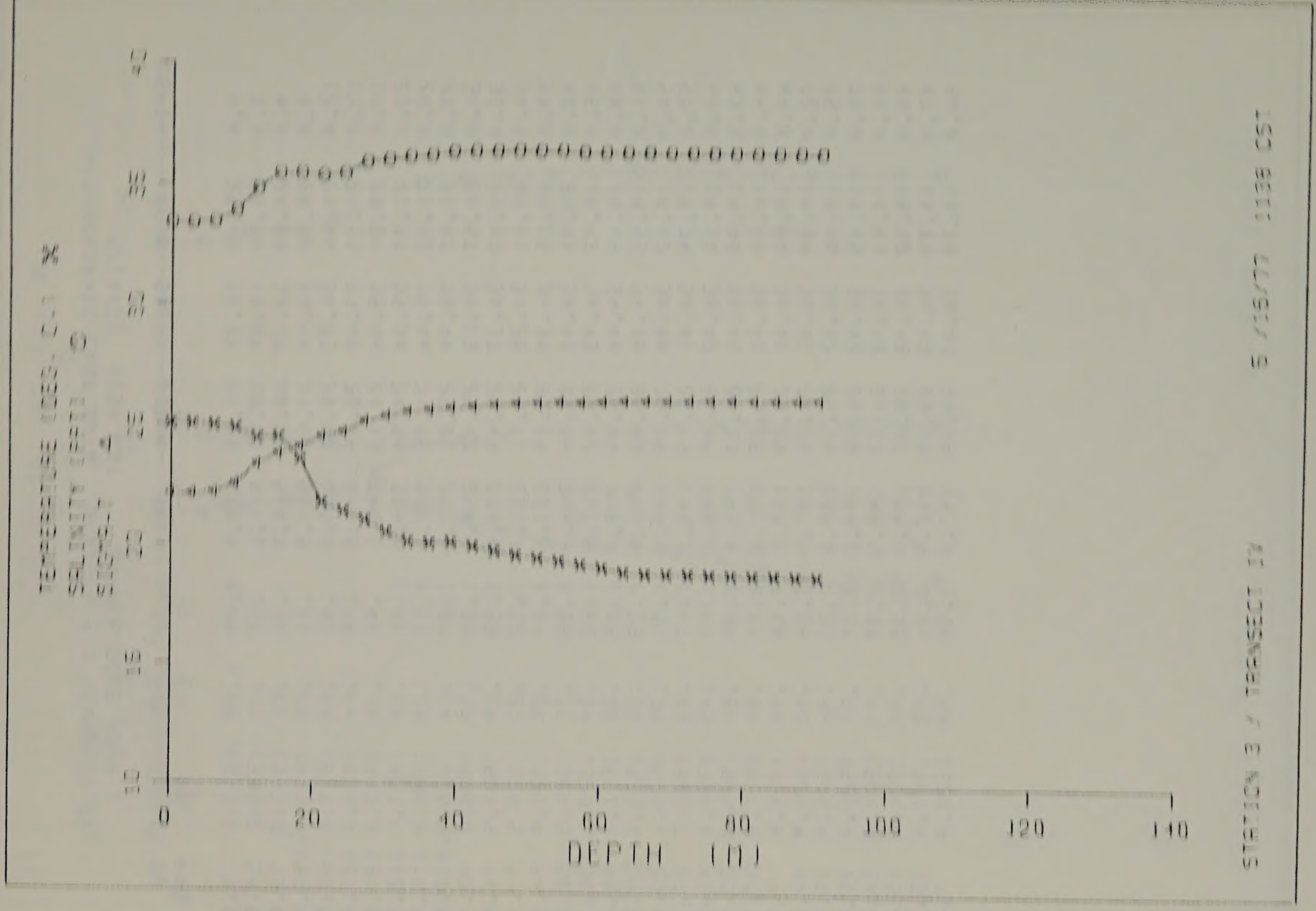
STATION 2 / TRANSECT IV 5 /16/77 1710 CST



STATION 6 / TRANSECT IV 5/16/77 1455 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT IV
5/16/77 1138 CST SAMPLE CODE 8JUR

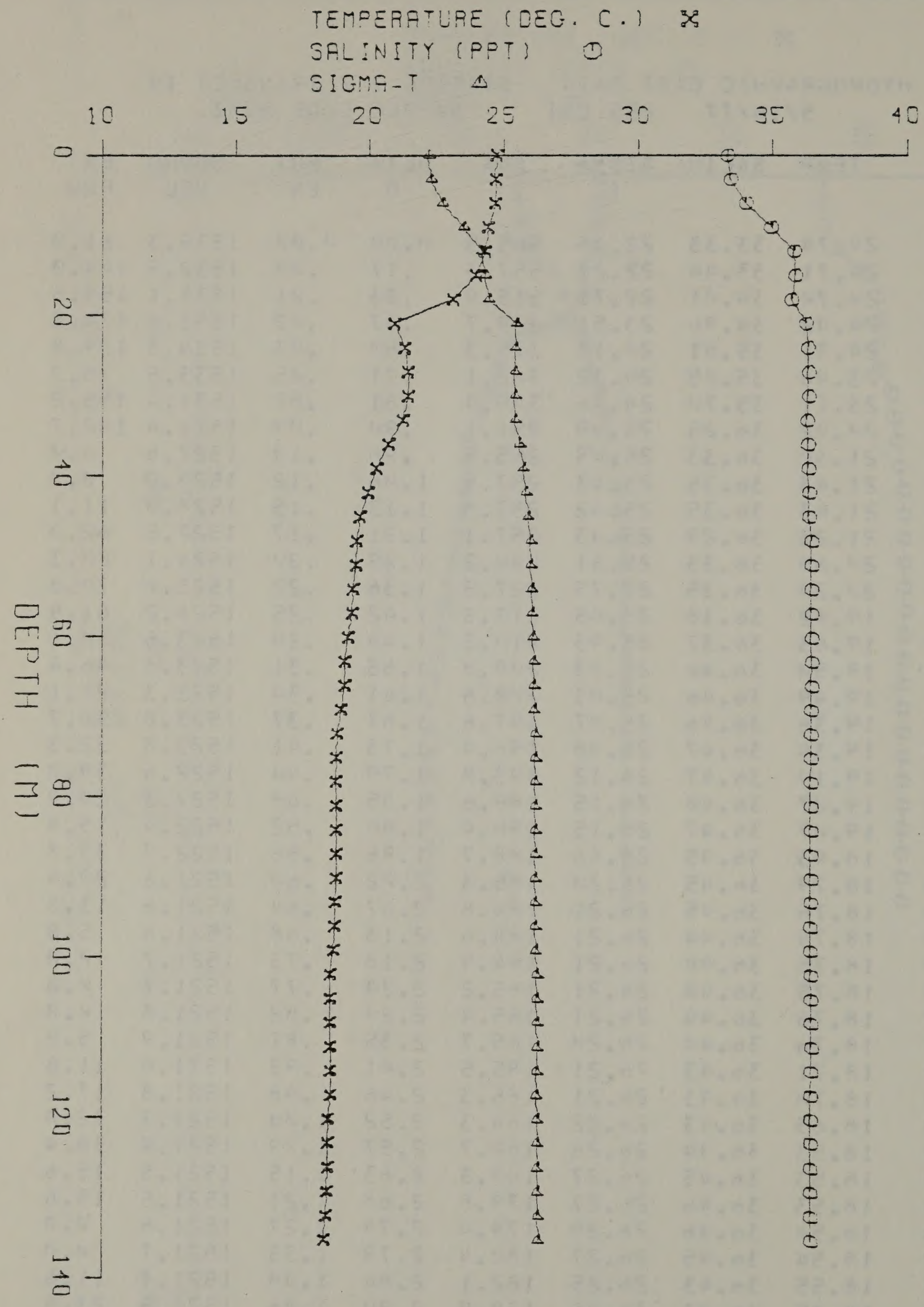
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	25.04	33.37	22.13	570.9	0.00	0.00	1533.1	9.7
3.0	25.04	33.38	22.13	571.1	.17	.00	1533.2	38.7
6.0	24.99	33.45	22.20	564.5	.34	.01	1533.2	93.9
9.0	24.88	33.88	22.56	530.5	.51	.02	1533.4	157.6
12.0	24.46	34.83	23.40	449.8	.65	.04	1533.6	163.8
15.0	24.51	35.45	23.86	406.5	.78	.06	1534.4	123.0
18.0	23.58	35.46	24.13	380.1	.90	.08	1532.2	121.8
21.0	21.77	35.36	24.58	338.1	1.01	.10	1527.6	112.7
24.0	21.42	35.46	24.75	321.6	1.11	.12	1526.9	114.7
27.0	21.07	35.94	25.21	277.6	1.20	.14	1526.5	117.4
30.0	20.57	36.03	25.42	258.1	1.28	.17	1525.4	92.1
33.0	20.17	36.17	25.63	238.6	1.35	.19	1524.5	76.6
36.0	20.11	36.25	25.71	231.2	1.42	.22	1524.5	57.7
39.0	20.18	36.38	25.79	223.5	1.49	.24	1524.9	56.1
42.0	20.01	36.41	25.86	216.9	1.56	.27	1524.5	51.3
45.0	19.82	36.43	25.92	211.5	1.62	.30	1524.1	51.2
48.0	19.65	36.46	25.99	205.0	1.68	.33	1523.7	46.2
51.0	19.53	36.46	26.02	201.9	1.75	.36	1523.4	36.5
54.0	19.42	36.46	26.05	199.1	1.81	.39	1523.1	25.4
57.0	19.28	36.41	26.05	199.1	1.87	.43	1522.7	27.3
60.0	19.14	36.42	26.09	195.8	1.93	.46	1522.4	41.1
63.0	18.94	36.41	26.13	191.5	1.98	.50	1521.9	35.5
66.0	18.89	36.41	26.15	190.2	2.04	.54	1521.8	18.8
69.0	18.89	36.41	26.15	190.1	2.10	.58	1521.8	9.5
72.0	18.88	36.41	26.15	190.0	2.16	.62	1521.9	14.0
75.0	18.86	36.42	26.16	189.4	2.21	.66	1521.9	15.8
78.0	18.85	36.42	26.16	189.1	2.27	.71	1521.9	15.8
81.0	18.83	36.42	26.17	188.5	2.33	.75	1521.9	14.0
84.0	18.82	36.42	26.17	188.4	2.38	.80	1521.9	15.8
87.0	18.79	36.42	26.18	187.5	2.44	.85	1521.9	15.8
90.0	18.79	36.43	26.19	187.4	2.50	.90	1521.9	9.5



STATION 3 / TRANSECT IV 5 /16/77 1138 CST

HYDROGRAPHIC CAST DATA   STATION 7 / TRANSECT IV
5/16/77   855 CST   SAMPLE CODE BJWZ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	24.74	33.33	22.18	565.5	0.00	0.00	1532.3	61.0
3.0	24.71	33.44	22.27	557.3	.17	.00	1532.5	104.0
6.0	24.70	34.01	22.71	515.9	.33	.01	1533.1	159.6
9.0	24.42	34.96	23.51	439.7	.47	.02	1533.6	174.5
12.0	24.31	35.81	24.18	375.3	.60	.03	1534.3	129.8
15.0	23.96	35.85	24.32	362.1	.71	.05	1533.5	75.2
18.0	23.11	35.70	24.46	349.4	.81	.07	1531.4	155.2
21.0	20.92	36.25	25.49	251.1	.90	.09	1526.4	142.7
24.0	21.30	36.33	25.45	255.5	.98	.10	1527.6	0.0
27.0	21.43	36.35	25.43	257.5	1.06	.12	1528.0	0.0
30.0	21.43	36.35	25.42	257.8	1.13	.15	1528.0	11.1
33.0	21.23	36.29	25.43	257.1	1.21	.17	1527.5	62.0
36.0	20.69	36.33	25.61	240.2	1.29	.20	1526.1	80.3
39.0	20.24	36.35	25.75	227.5	1.36	.22	1525.0	70.8
42.0	19.92	36.38	25.85	217.3	1.42	.25	1524.2	61.5
45.0	19.63	36.37	25.93	210.3	1.49	.28	1523.5	60.1
48.0	19.50	36.46	26.03	200.8	1.55	.31	1523.3	46.4
51.0	19.49	36.46	26.03	200.6	1.61	.34	1523.3	27.1
54.0	19.36	36.46	26.07	197.6	1.67	.37	1523.0	30.7
57.0	19.34	36.47	26.08	196.4	1.73	.41	1523.0	32.3
60.0	19.19	36.47	26.12	193.0	1.79	.44	1522.6	39.0
63.0	19.07	36.48	26.15	189.6	1.85	.48	1522.3	24.9
66.0	19.07	36.47	26.15	190.4	1.90	.52	1522.4	15.8
69.0	18.93	36.45	26.16	188.7	1.96	.56	1522.0	33.8
72.0	18.79	36.45	26.20	185.3	2.02	.60	1521.6	29.6
75.0	18.76	36.45	26.21	184.8	2.07	.64	1521.6	13.8
78.0	18.74	36.44	26.21	184.6	2.13	.68	1521.6	5.8
81.0	18.75	36.44	26.21	184.9	2.18	.73	1521.7	0.0
84.0	18.75	36.44	26.21	185.2	2.24	.77	1521.7	0.0
87.0	18.76	36.44	26.21	185.4	2.29	.82	1521.8	0.0
90.0	18.76	36.44	26.20	185.7	2.35	.87	1521.9	5.8
93.0	18.71	36.43	26.21	185.5	2.41	.93	1521.8	11.8
96.0	18.70	36.43	26.21	185.3	2.46	.98	1521.8	17.2
99.0	18.65	36.43	26.22	184.3	2.52	1.04	1521.7	32.0
102.0	18.53	36.44	26.26	180.7	2.57	1.09	1521.4	30.4
105.0	18.53	36.45	26.27	180.3	2.63	1.15	1521.5	15.6
108.0	18.53	36.46	26.27	179.8	2.68	1.21	1521.5	15.6
111.0	18.54	36.46	26.28	179.4	2.74	1.27	1521.6	0.0
114.0	18.54	36.45	26.27	180.4	2.79	1.33	1521.7	0.0
117.0	18.55	36.43	26.25	182.1	2.84	1.40	1521.7	11.6
120.0	18.45	36.43	26.28	179.9	2.90	1.46	1521.5	23.5
123.0	18.43	36.43	26.28	179.7	2.95	1.53	1521.5	5.7
126.0	18.44	36.43	26.28	180.0	3.01	1.60	1521.5	9.2
129.0	18.41	36.43	26.28	179.5	3.06	1.67	1521.5	18.6
132.0	18.37	36.43	26.29	178.6	3.12	1.74	1521.4	24.5
135.0	18.29	36.43	26.31	177.0	3.17	1.82	1521.2	27.5



STATION 7 / TRANSECT IV 5 /16/77 855 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT II
7/ 6/77 810 CST SAMPLE CODE BLDQ

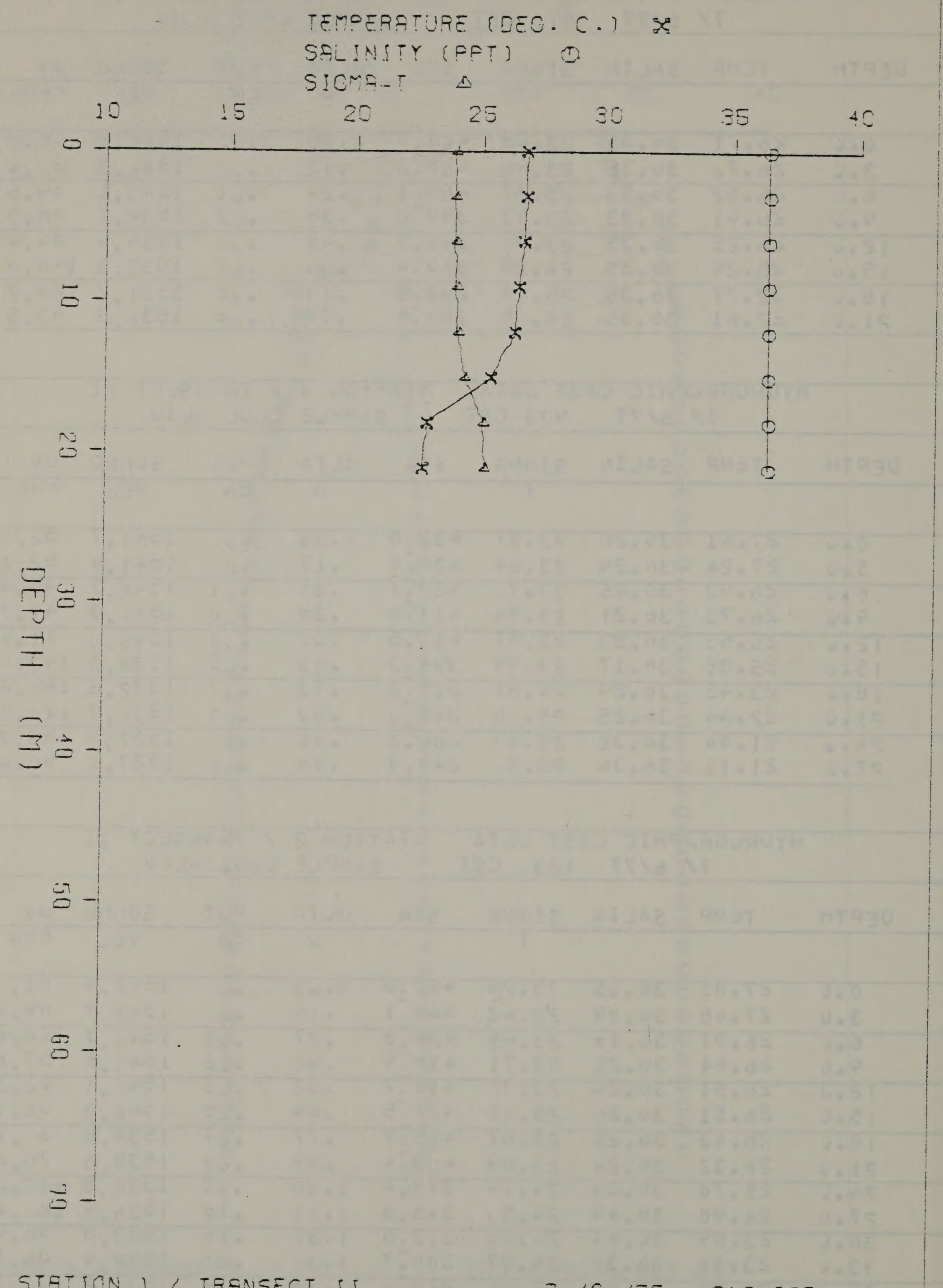
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	26.71	36.35	23.85	406.4	0.00	0.00	1540.2	18.9
3.0	26.70	36.35	23.86	406.0	.12	.00	1540.3	20.4
6.0	26.62	36.33	23.87	405.1	.24	.01	1540.1	39.6
9.0	26.41	36.33	23.93	399.0	.36	.02	1539.7	48.3
12.0	26.25	36.33	23.98	394.5	.48	.03	1539.4	84.4
15.0	25.29	36.33	24.28	366.4	.60	.05	1537.2	148.0
18.0	22.77	36.35	25.04	293.5	.70	.06	1531.2	129.2
21.0	22.61	36.35	25.09	289.4	.79	.08	1530.9	42.5

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT II
7/ 6/77 925 CST SAMPLE CODE BLIU

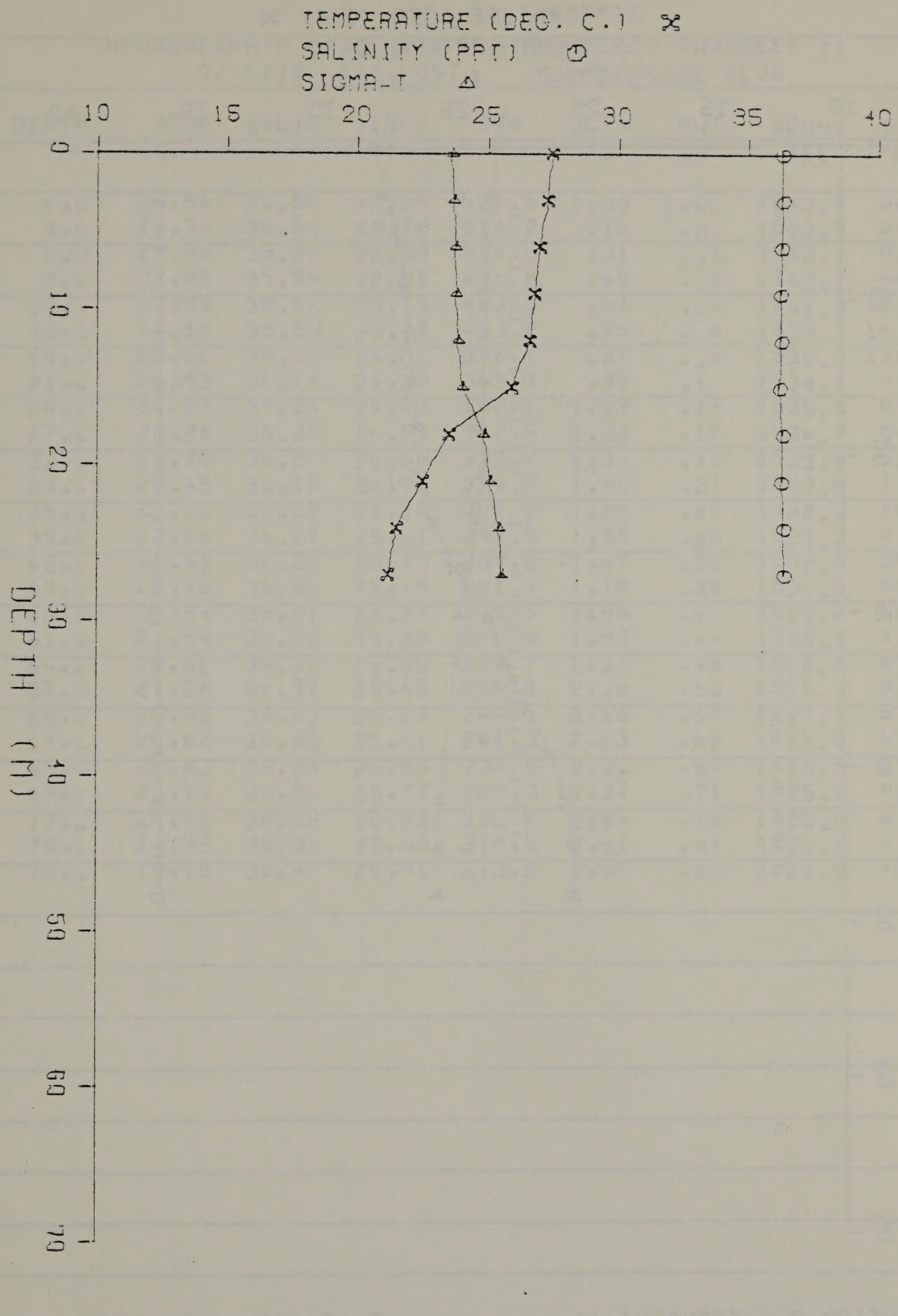
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	27.41	36.28	23.57	432.8	0.00	0.00	1541.7	52.3
3.0	27.24	36.29	23.64	426.9	.13	.00	1541.4	52.2
6.0	26.93	36.25	23.70	420.7	.26	.01	1540.7	45.4
9.0	26.73	36.21	23.74	417.6	.38	.02	1540.3	47.7
12.0	26.55	36.23	23.81	410.5	.51	.03	1540.0	71.4
15.0	25.85	36.17	23.99	394.3	.63	.05	1538.3	143.0
18.0	23.45	36.29	24.81	316.2	.73	.07	1532.8	148.8
21.0	22.44	36.25	25.06	292.0	.83	.08	1530.3	110.5
24.0	21.44	36.32	25.40	260.0	.91	.10	1527.9	95.7
27.0	21.12	36.34	25.50	249.9	.99	.12	1527.1	66.4

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT II
7/ 6/77 1230 CST SAMPLE CODE BLFG

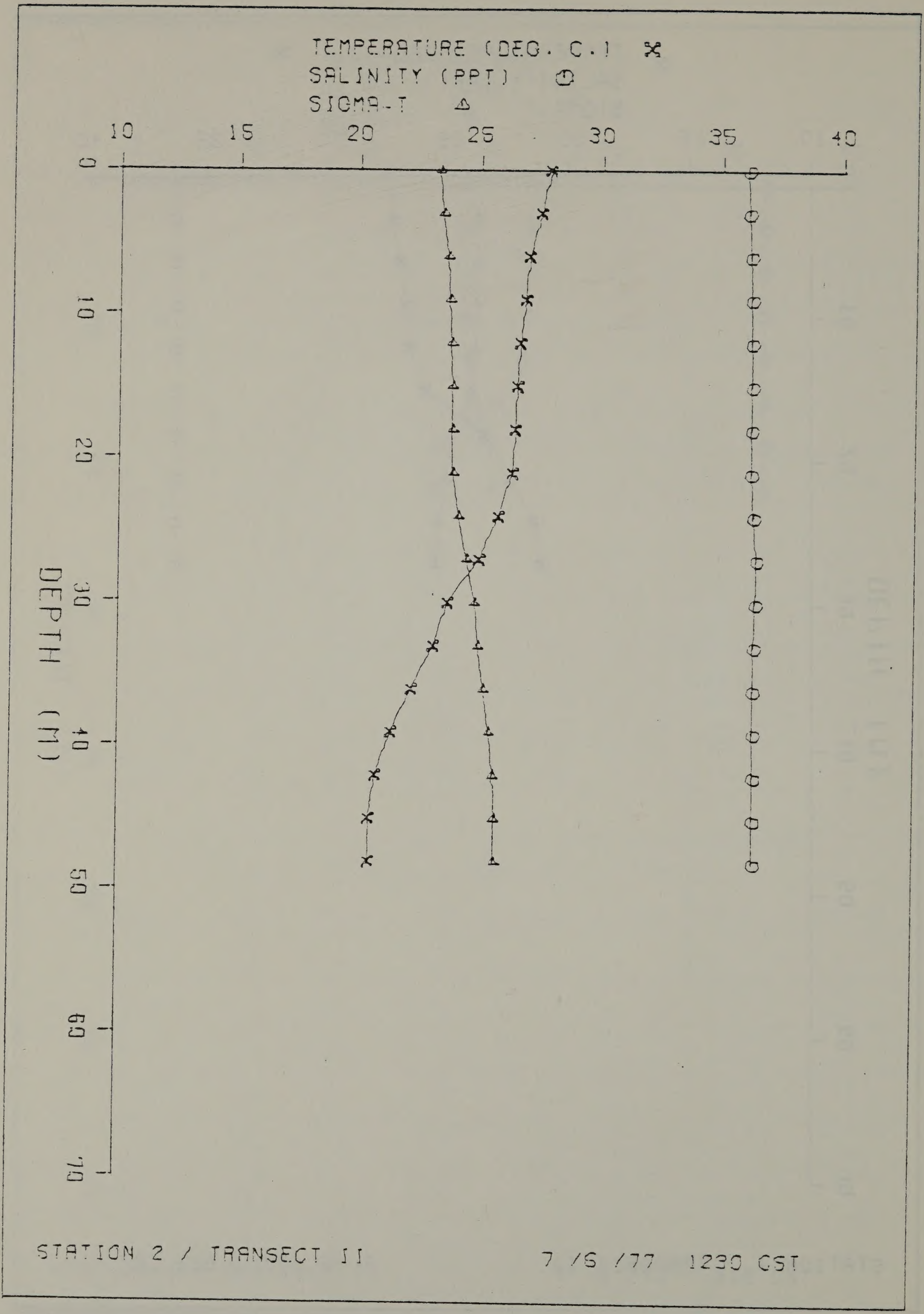
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	27.85	36.05	23.26	462.8	0.00	0.00	1542.4	81.0
3.0	27.46	36.09	23.42	446.1	.14	.00	1541.7	88.9
6.0	26.97	36.16	23.64	426.8	.27	.01	1540.7	78.4
9.0	26.84	36.22	23.71	419.9	.40	.02	1540.5	57.6
12.0	26.61	36.24	23.80	411.7	.52	.03	1540.1	52.3
15.0	26.51	36.26	23.85	407.5	.64	.05	1540.0	36.7
18.0	26.43	36.25	23.87	405.7	.77	.07	1539.8	30.7
21.0	26.32	36.24	23.89	403.4	.89	.09	1539.6	75.8
24.0	25.76	36.34	24.14	379.4	1.00	.12	1538.5	112.0
27.0	24.98	36.49	24.50	345.6	1.11	.15	1536.9	120.4
30.0	23.69	36.44	24.85	312.6	1.21	.18	1533.8	98.9
33.0	23.11	36.38	24.97	300.7	1.30	.21	1532.4	86.7
36.0	22.22	36.36	25.21	278.0	1.39	.24	1530.2	100.3
39.0	21.38	36.38	25.46	254.4	1.47	.27	1528.1	94.2
42.0	20.75	36.40	25.64	237.2	1.55	.30	1526.5	72.7
45.0	20.47	36.40	25.72	230.2	1.62	.33	1525.8	42.8
48.0	20.48	36.42	25.73	228.9	1.68	.36	1525.9	24.2



STATION 1 / TRANSECT II 7 /6 /77 910 CST



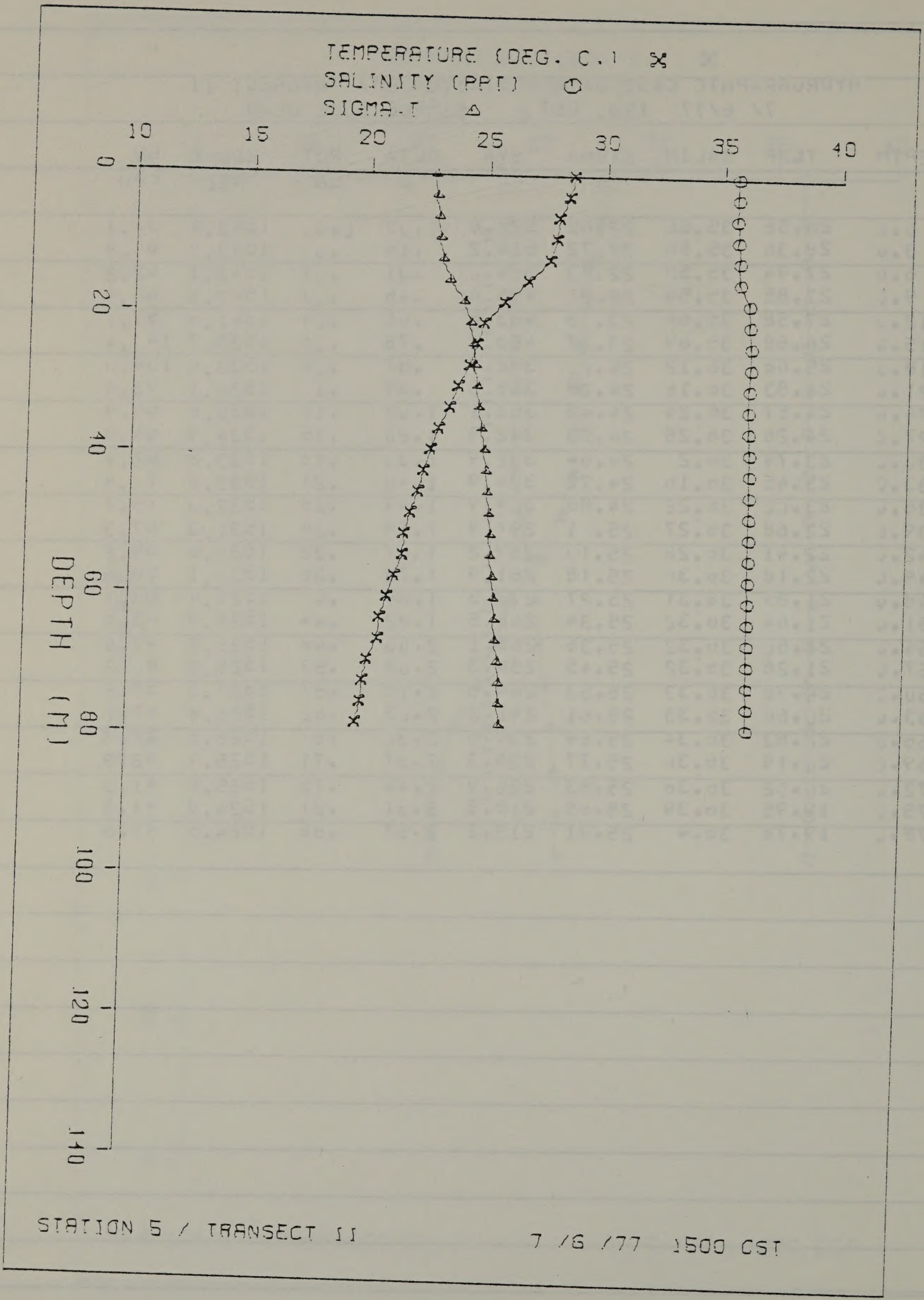
STATION 4 / TRANSECT II 7 /6 /77 925 CST



STATION 2 / TRANSECT II 7 /6 /77 1230 CST

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT II
7/ 6/77 1500 CST SAMPLE CODE BLJB

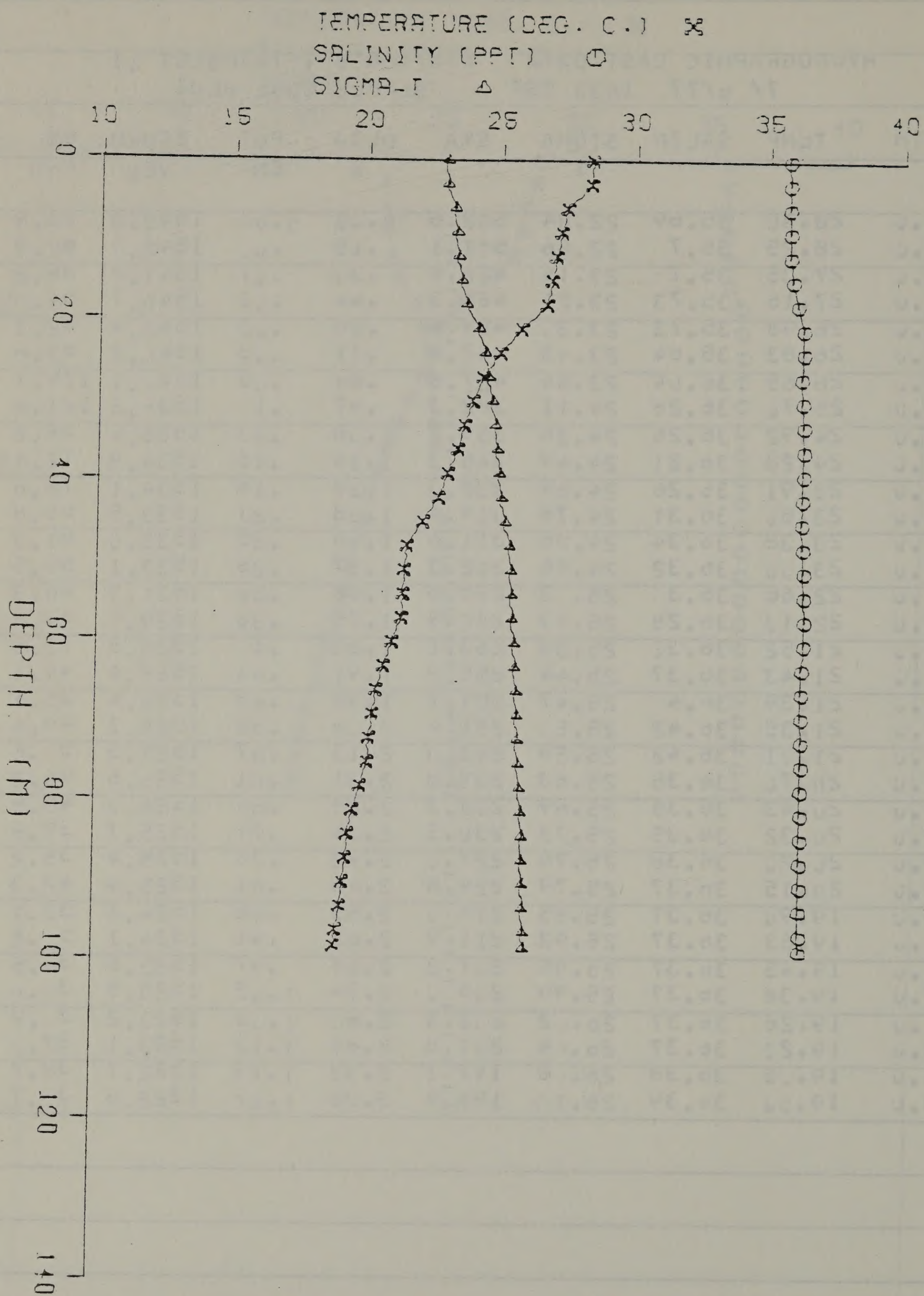
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.56	35.56	22.65	520.6	0.00	0.00	1543.4	54.1
3.0	28.36	35.56	22.72	514.2	.16	.00	1543.0	60.8
6.0	27.94	35.52	22.83	504.0	.31	.01	1542.1	62.2
9.0	27.85	35.59	22.91	496.6	.46	.02	1542.1	66.9
12.0	27.58	35.66	23.05	483.6	.61	.04	1541.6	97.1
15.0	26.68	35.69	23.37	453.2	.75	.06	1539.7	140.4
18.0	25.68	36.12	24.00	392.7	.87	.08	1538.0	138.0
21.0	24.83	36.16	24.29	365.3	.99	.10	1536.1	93.9
24.0	24.57	36.24	24.43	352.1	1.09	.12	1535.6	69.9
27.0	24.26	36.25	24.53	342.9	1.20	.15	1534.9	64.9
30.0	23.79	36.20	24.64	332.9	1.30	.18	1533.8	62.9
33.0	23.45	36.18	24.72	324.9	1.40	.21	1533.0	70.8
36.0	23.00	36.22	24.88	309.9	1.49	.25	1532.0	76.7
39.0	22.68	36.27	25.01	297.9	1.59	.28	1531.3	67.3
42.0	22.41	36.28	25.10	289.2	1.67	.32	1530.6	59.2
45.0	22.18	36.30	25.18	281.9	1.76	.36	1530.1	58.6
48.0	21.89	36.31	25.27	273.5	1.84	.40	1529.4	58.1
51.0	21.64	36.32	25.34	266.5	1.92	.44	1528.9	43.2
54.0	21.60	36.32	25.36	265.1	2.00	.48	1528.8	47.6
57.0	21.26	36.32	25.45	256.3	2.08	.53	1528.0	60.2
60.0	20.98	36.33	25.53	248.6	2.16	.57	1527.3	57.5
63.0	20.68	36.33	25.61	241.2	2.23	.62	1526.6	47.1
66.0	20.63	36.34	25.64	238.6	2.30	.67	1526.5	57.3
69.0	20.19	36.30	25.77	226.3	2.37	.71	1525.4	62.3
72.0	20.02	36.38	25.83	220.9	2.44	.76	1525.0	41.5
75.0	19.95	36.39	25.85	218.5	2.51	.81	1524.8	41.5
78.0	19.78	36.40	25.91	213.2	2.57	.86	1524.5	48.6



STATION 5 / TRANSECT II 7 /6 /77 1500 CST

HYDROGRAPHIC CAST DATA STATION 6 , TRANSECT II
7/ 6/77 1635 CST SAMPLE CODE BLJI

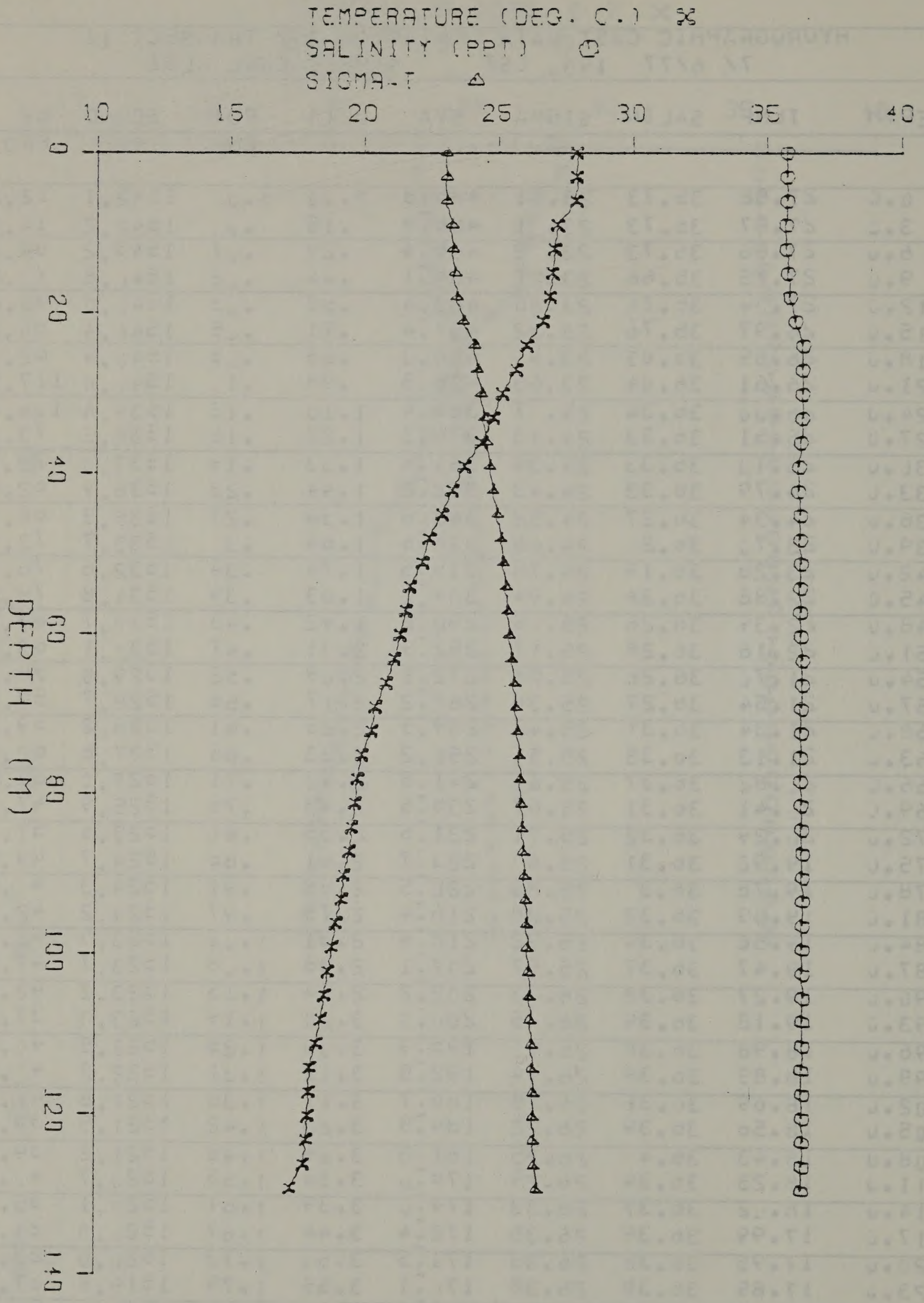
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL.	BV FRQ
0.0	28.30	35.69	22.84	502.6	0.00	0.00	1543.0	28.8
3.0	28.25	35.7	22.86	501.1	.15	.00	1542.9	80.9
6.0	27.35	35.7	23.16	472.8	.30	.01	1541.0	88.2
9.0	27.16	35.73	23.24	465.3	.44	.02	1540.7	54.0
12.0	26.98	35.73	23.30	459.6	.58	.03	1540.4	62.3
15.0	26.83	35.84	23.43	447.6	.71	.05	1540.2	83.6
18.0	26.65	36.04	23.64	427.6	.84	.08	1540.1	119.1
21.0	25.70	36.28	24.11	382.3	.97	.10	1538.2	121.8
24.0	24.92	36.28	24.36	359.2	1.08	.13	1536.5	88.5
27.0	24.28	36.21	24.49	346.3	1.18	.15	1534.9	77.1
30.0	23.91	36.26	24.64	332.0	1.28	.18	1534.1	76.6
33.0	23.60	36.31	24.78	319.4	1.38	.21	1533.5	66.8
36.0	23.38	36.34	24.86	311.6	1.48	.25	1533.0	61.3
39.0	23.00	36.32	24.96	302.3	1.57	.28	1532.1	59.5
42.0	22.68	36.30	25.03	295.5	1.66	.32	1531.3	68.3
45.0	22.10	36.28	25.19	280.9	1.75	.36	1529.9	84.0
48.0	21.52	36.32	25.38	263.1	1.83	.40	1528.5	72.5
51.0	21.43	36.37	25.44	256.9	1.91	.44	1528.4	44.6
54.0	21.39	36.40	25.47	254.1	1.98	.48	1528.4	35.1
57.0	21.35	36.42	25.50	251.4	2.06	.52	1528.3	49.6
60.0	21.01	36.42	25.59	243.0	2.13	.57	1527.5	50.6
63.0	20.70	36.35	25.63	237.8	2.21	.61	1526.6	46.2
66.0	20.43	36.35	25.69	233.3	2.28	.66	1526.0	45.8
69.0	20.32	36.35	25.73	230.3	2.35	.71	1525.7	37.6
72.0	20.20	36.36	25.76	227.0	2.42	.76	1525.4	35.2
75.0	20.15	36.37	25.79	224.8	2.48	.81	1525.4	42.3
78.0	19.90	36.37	25.85	219.0	2.55	.86	1524.7	53.1
81.0	19.63	36.37	25.92	211.9	2.62	.91	1524.1	50.8
84.0	19.45	36.37	25.98	207.2	2.68	.97	1523.6	36.5
87.0	19.38	36.37	25.99	206.0	2.74	1.02	1523.5	30.0
90.0	19.28	36.37	26.02	203.3	2.80	1.08	1523.2	30.9
93.0	19.20	36.37	26.04	201.8	2.86	1.13	1523.1	37.0
96.0	19.05	36.38	26.09	197.1	2.92	1.19	1522.7	38.7
98.0	19.00	36.39	26.10	195.8	2.96	1.23	1522.6	30.7



STATION 6 , TRANSECT II 7 /6 /77 1635 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II
7/ 6/77 1900 CST SAMPLE CODE BLGZ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	27.88	35.73	23.11	486.8	0.00	0.00	1542.1	12.2
3.0	27.87	35.73	23.11	486.9	.15	.00	1542.2	14.7
6.0	27.86	35.73	23.12	486.4	.29	.01	1542.2	64.2
9.0	27.15	35.68	23.21	468.1	.44	.02	1540.6	70.9
12.0	27.04	35.71	23.26	463.4	.58	.03	1540.5	48.6
15.0	26.97	35.76	23.32	457.4	.71	.05	1540.4	54.2
18.0	26.89	35.83	23.40	450.0	.85	.08	1540.4	62.1
21.0	26.61	36.04	23.65	426.5	.98	.10	1540.0	117.5
24.0	26.00	36.34	24.07	386.4	1.10	.13	1539.0	104.4
27.0	25.61	36.33	24.18	376.3	1.22	.16	1538.2	73.8
30.0	25.10	36.33	24.34	361.4	1.33	.19	1537.0	72.6
33.0	24.79	36.33	24.43	352.2	1.44	.23	1536.4	62.4
36.0	24.34	36.27	24.52	343.6	1.54	.27	1535.3	68.7
39.0	23.70	36.20	24.66	330.6	1.64	.30	1533.7	72.5
42.0	23.26	36.19	24.78	319.5	1.74	.34	1532.6	76.1
45.0	22.88	36.26	24.94	304.1	1.83	.39	1531.8	79.2
48.0	22.39	36.26	25.08	290.8	1.92	.43	1530.7	68.0
51.0	22.16	36.28	25.17	282.9	2.01	.47	1530.1	63.9
54.0	21.70	36.26	25.28	272.1	2.09	.52	1529.0	58.7
57.0	21.54	36.27	25.34	267.2	2.17	.56	1528.7	52.6
60.0	21.34	36.31	25.42	259.5	2.25	.61	1528.2	59.2
63.0	21.13	36.35	25.51	251.2	2.33	.66	1527.8	62.4
66.0	20.82	36.37	25.61	241.8	2.40	.71	1527.0	58.5
69.0	20.41	36.31	25.67	235.6	2.48	.76	1525.9	47.3
72.0	20.29	36.32	25.71	231.6	2.55	.81	1525.6	51.1
75.0	19.92	36.31	25.80	223.7	2.61	.86	1524.7	49.5
78.0	19.76	36.30	25.83	220.5	2.68	.91	1524.3	40.5
81.0	19.69	36.33	25.88	216.4	2.75	.97	1524.2	42.3
84.0	19.56	36.34	25.92	212.4	2.81	1.02	1523.9	42.9
87.0	19.47	36.37	25.97	208.1	2.88	1.08	1523.7	47.5
90.0	19.27	36.38	26.03	202.2	2.94	1.13	1523.2	42.2
93.0	19.18	36.39	26.05	200.0	3.00	1.19	1523.0	37.5
96.0	18.98	36.38	26.10	195.9	3.05	1.25	1522.5	40.8
99.0	18.85	36.38	26.14	192.5	3.12	1.31	1522.2	40.0
102.0	18.69	36.38	26.18	186.7	3.17	1.36	1521.8	41.2
105.0	18.56	36.39	26.22	184.9	3.23	1.42	1521.5	39.9
108.0	18.43	36.4	26.25	181.5	3.28	1.48	1521.2	39.1
111.0	18.25	36.39	26.29	178.0	3.34	1.55	1520.7	40.8
114.0	18.02	36.37	26.33	174.0	3.39	1.61	1520.1	35.4
117.0	17.99	36.38	26.35	172.4	3.44	1.67	1520.0	24.3
120.0	17.95	36.38	26.36	171.5	3.50	1.73	1520.0	23.1
123.0	17.89	36.39	26.38	170.1	3.55	1.79	1519.9	27.1
126.0	17.79	36.38	26.40	168.3	3.60	1.86	1519.6	50.2
129.0	17.28	36.35	26.50	158.6	3.65	1.92	1516.1	64.9



STATION 3 / TRANSECT II

7 /6 /77 1900 CST

HYDROGRAPHIC CAST DATA STATION 7 , TRANSECT II
7/ 6/77 202. CST SAMPLE CODE BLJA

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	28.55	36.17	23.12	476.1	0.00	0.00	1544.1	0.0
3.0	28.57	36.17	23.11	477.1	.14	.00	1544.1	15.0
6.0	28.52	36.17	23.13	475.6	.29	.01	1544.1	47.0
9.0	28.24	36.17	23.22	467.2	.43	.02	1543.5	45.5
12.0	28.21	36.17	23.23	466.3	.57	.03	1543.5	23.7
15.0	28.16	36.17	23.25	464.8	.71	.05	1543.5	18.9
18.0	28.16	36.17	23.25	464.9	.85	.08	1543.5	22.2
21.0	28.09	36.17	23.27	462.8	.99	.11	1543.4	71.7
24.0	27.54	36.23	23.50	441.4	1.12	.14	1542.3	114.6
27.0	26.58	36.37	23.91	402.3	1.25	.17	1540.4	117.0
30.0	25.73	36.35	24.16	376.3	1.37	.2	1538.5	97.4
33.0	25.23	36.42	24.37	356.6	1.48	.24	1537.5	88.0
36.0	24.73	36.44	24.53	342.7	1.58	.28	1536.4	72.2
39.0	24.45	36.44	24.62	334.8	1.68	.32	1535.8	67.2
42.0	23.84	36.38	24.75	322.1	1.78	.35	1534.3	65.0
45.0	23.37	36.29	24.82	315.5	1.88	.4	1533.1	66.3
48.0	22.67	36.21	24.97	302.0	1.97	.44	1531.3	89.1
51.0	21.65	36.15	25.21	278.9	2.06	.49	1528.7	82.1
54.0	21.65	36.26	25.29	271.0	2.14	.53	1528.9	51.6
57.0	21.57	36.29	25.34	266.8	2.22	.58	1528.7	51.8
60.0	21.41	36.34	25.42	259.3	2.30	.63	1528.4	54.7
63.0	21.23	36.36	25.48	253.2	2.38	.67	1528.0	39.7
66.0	21.19	36.36	25.50	252.3	2.45	.72	1528.0	46.3
69.0	20.88	36.37	25.59	243.6	2.53	.78	1527.2	58.2
72.0	20.59	36.36	25.66	236.9	2.60	.83	1526.5	52.6
75.0	20.29	36.34	25.72	231.0	2.67	.88	1525.7	53.4
78.0	19.95	36.32	25.80	223.8	2.74	.93	1524.8	47.1
81.0	19.83	36.32	25.83	220.9	2.81	.99	1524.5	42.4
84.0	19.65	36.33	25.89	215.7	2.87	1.04	1524.1	51.0
87.0	19.38	36.33	25.96	209.1	2.94	1.1	1523.4	49.2
90.0	19.23	36.34	26.00	204.7	3.00	1.16	1523.0	45.5
93.0	19.19	36.4	26.06	199.7	3.06	1.21	1523.1	43.7
96.0	19.07	36.41	26.10	196.1	3.12	1.27	1522.8	40.0
99.0	18.89	36.39	26.14	192.5	3.18	1.33	1522.3	41.2
102.0	18.72	36.39	26.18	188.5	3.24	1.39	1521.9	38.5
105.0	18.64	36.4	26.21	185.9	3.29	1.45	1521.7	36.3
108.0	18.50	36.4	26.24	182.6	3.35	1.51	1521.4	39.7
111.0	18.39	36.42	26.28	178.8	3.40	1.57	1521.1	34.5
114.0	18.36	36.43	26.30	177.4	3.46	1.63	1521.1	34.6
117.0	18.23	36.44	26.34	173.7	3.51	1.7	1520.8	38.2
120.0	18.11	36.44	26.37	17 .9	3.56	1.76	1520.5	25.0
123.0	18.08	36.43	26.37	171.0	3.61	1.82	1520.4	27.9
126.0	17.92	36.43	26.41	167.5	3.66	1.89	1520.1	39.8
129.0	17.70	36.41	26.45	163.8	3.71	1.95	1519.4	32.6
132.0	17.62	36.4	26.46	162.7	3.76	2.02	1519.2	31.8
135.0	17.47	36.4	26.50	159.3	3.81	2.09	1518.8	26.5
138.0	17.42	36.38	26.49	159.7	3.86	2.15	1518.7	16.8

I/7

```
DEPTH    TEMP   SALIN  SIGMA    SVA    DLTA    POT    SOUND    BV
                         T              D      EN     VEL     FRQ

141.0   17.29   36.36  26.51   158.2   3.91   2.22   1518.3   24.
144.0   17.17   36.34  26.52   157.2   3.95   2.29   1518.0   35.
147.0   16.94   36.33  26.57   152.7   4.00   2.36   1517.4   37.2
150.0   16.86   36.33  26.59   150.9   4.05   2.43   1517.2   25.5
153.0   16.81   36.33  26.60   149.9   4.09   2.50   1517.1   18.8
156.0   16.79   36.33  26.61   149.5   4.14   2.57   1517.1   12.6
159.0   16.77   36.33  26.61   149.3   4.18   2.64   1517.1   12.6
162.0   16.75   36.33  26.61   148.9   4.23   2.72   1517.1   22.9
165.0   16.60   36.31  26.63   147.1   4.27   2.79   1516.6   29.2
168.0   16.25   36.23  26.66   145.1   4.32   2.87   1515.5   39.4
171.0   16.05   36.24  26.71   140.0   4.36   2.94   1515.0   39.6
174.0   15.90   36.22  26.73   138.2   4.40   3.02   1514.5   22.0
177.0   15.84   36.21  26.73   137.9   4.44   3.09   1514.4   21.9
180.0   15.69   36.19  26.75   136.1   4.48   3.17   1514.0   12.6
183.0   15.64   36.16  26.74   137.3   4.52   3.24   1513.8    0.0
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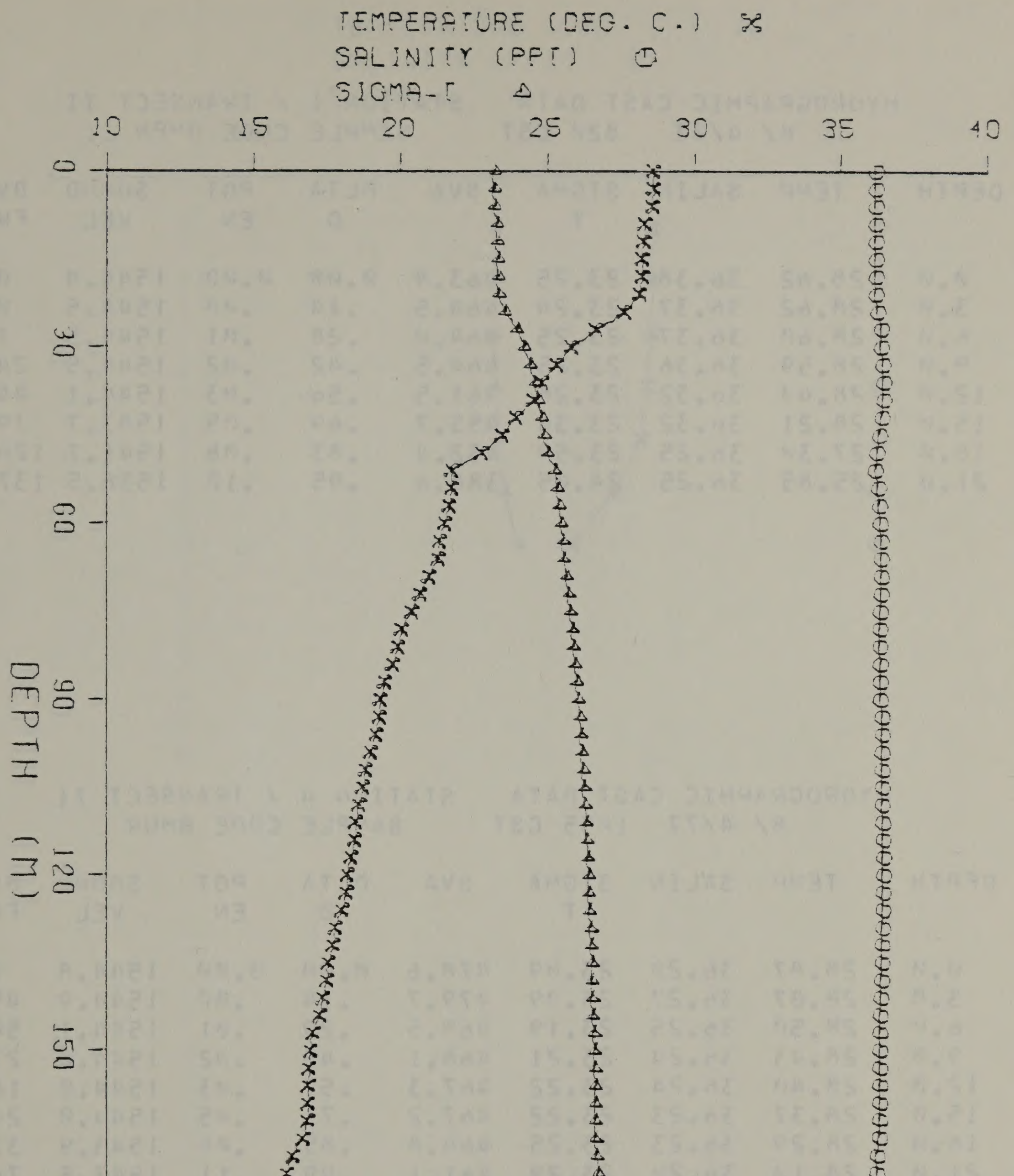

STATION 7 , TRANSECT II 7 /6 /77 2020 CST

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          HYDROGRAPHIC CAST DATA   STATION 1 / TRANSECT II
                8/ 4/77   820 CST     SAMPLE CODE BMPN

DEPTH      TEMP   SALIN   SIGMA     SVA     DLTA     POT     SOUND   BV
                            T                 D      EN       VEL    FRQ

  0.0     28.62   36.38   23.25   463.4   0.00    0.00    1544.4    0.0
  3.0     28.62   36.37   23.24   464.5    .14     .00    1544.5    0.0
  6.0     28.60   36.37   23.25   464.0    .28     .01    1544.5    7.1
  9.0     28.59   36.36   23.25   464.5    .42     .02    1544.5   24.4
 12.0     28.40   36.32   23.28   461.5    .56     .03    1544.1   44.5
 15.0     28.21   36.32   23.34   455.7    .69     .05    1543.7   79.6
 18.0     27.30   36.25   23.59   432.4    .83     .08    1541.7  120.6
 21.0     25.85   36.25   24.05   388.6    .95     .10    1538.5  137.8
```

```
          HYDROGRAPHIC CAST DATA   STATION 4 / TRANSECT II
                8/ 4/77  1055 CST     SAMPLE CODE BMUR

DEPTH      TEMP   SALIN   SIGMA     SVA     DLTA     POT     SOUND   BV
                            T                 D      EN       VEL    FRQ

  0.0     28.87   36.28   23.09   478.6   0.00    0.00    1544.8    0.0
  3.0     28.87   36.27   23.09   479.7    .14     .00    1544.9   45.6
  6.0     28.50   36.25   23.19   469.5    .29     .01    1544.1   50.6
  9.0     28.43   36.24   23.21   468.1    .43     .02    1544.0   23.0
 12.0     28.40   36.24   23.22   467.3    .57     .03    1544.0   16.0
 15.0     28.37   36.23   23.22   467.2    .71     .05    1544.0   24.4
 18.0     28.29   36.23   23.25   464.8    .85     .08    1543.9   37.1
 21.0     28.10   36.20   23.29   461.1    .99     .11    1543.5   74.1
 24.0     27.50   36.24   23.51   439.6   1.12     .14    1542.3   94.6
 27.0     26.88   36.25   23.72   419.9   1.25     .17    1541.0  102.4
 30.0     26.00   36.28   24.02   391.3   1.37     .21    1539.1  135.4
 33.0     24.00   36.25   24.61   335.4   1.48     .24    1534.4  128.6
 36.0     23.22   36.23   24.82   315.1   1.58     .28    1532.5   94.0
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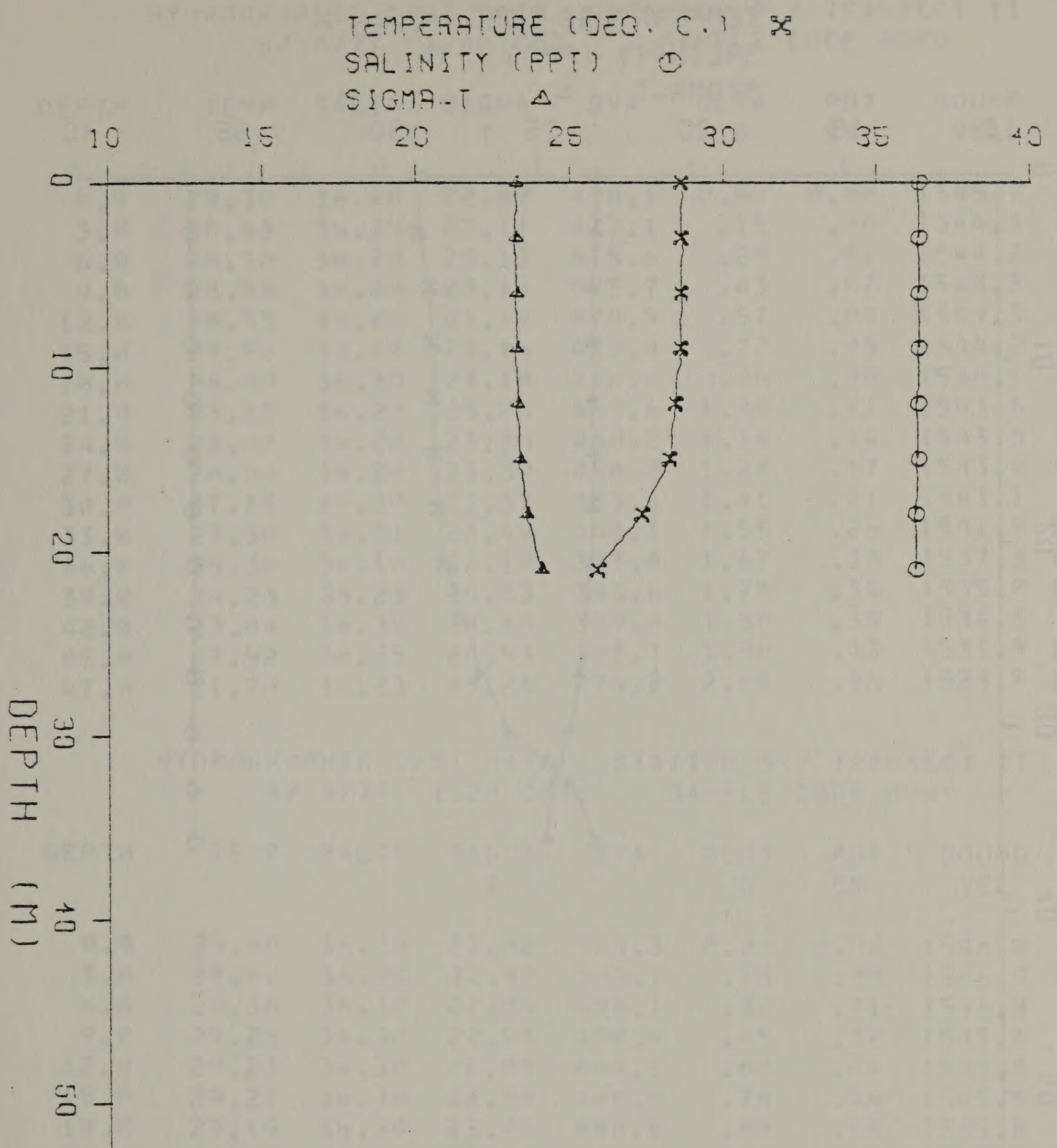
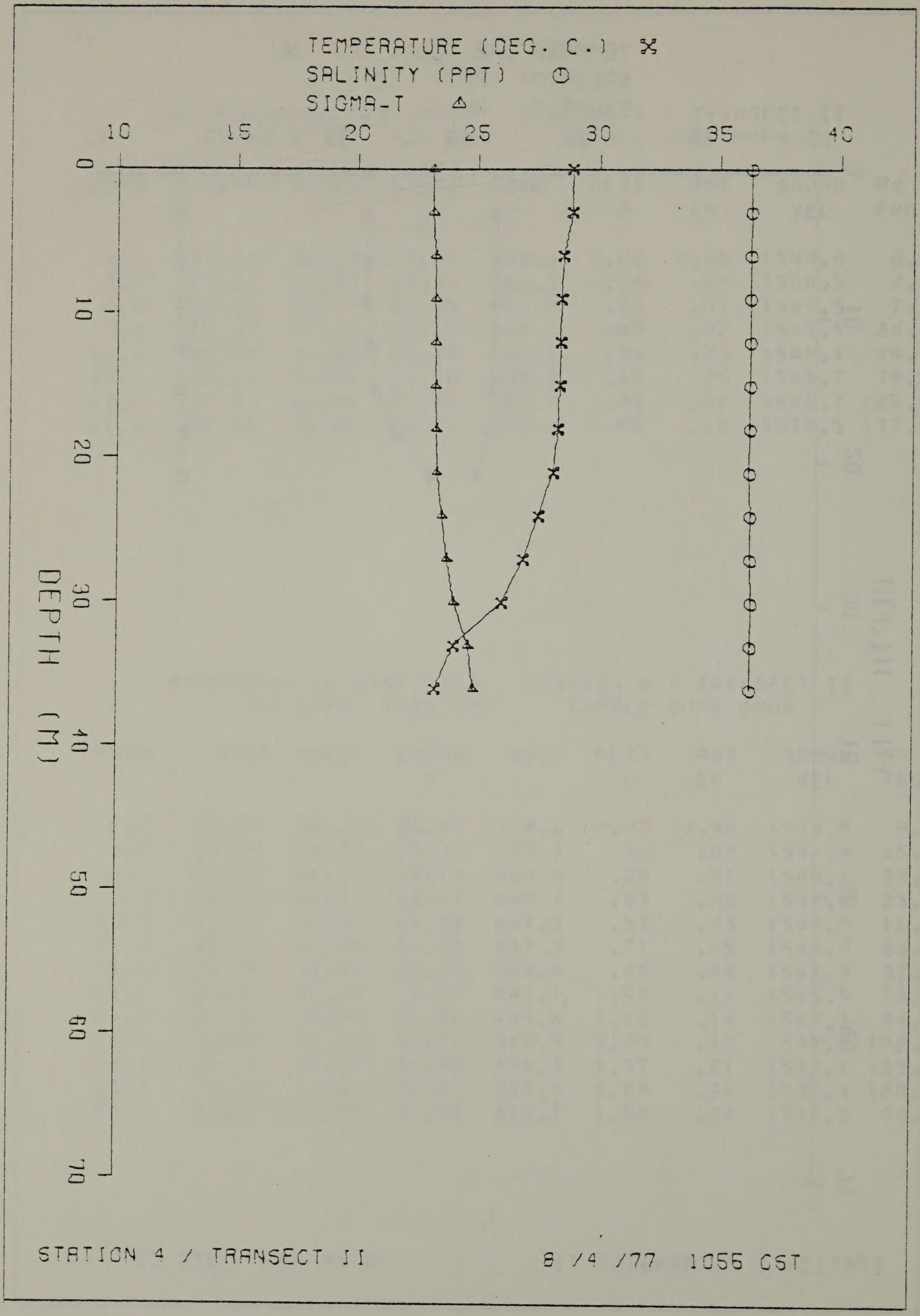


STATION 1 / TRANSECT II 8/4/77 820 CST



STATION 4 / TRANSECT II 8 /4 /77 1056 CST

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           HYDROGRAPHIC CAST DATA   STATION 2 / TRANSECT II
                 8/ 4/77  1240 CST      SAMPLE CODE BMRD

DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND   BV
                            T               D       EN      VEL    FRQ

  0.0     29.30   36.20   22.89   498.1   0.00    0.00   1545.7   96.3
  3.0     28.63   36.20   23.11   477.1    .15     .00   1544.3   70.6
  6.0     28.58   36.20   23.13   475.6    .29     .01   1544.2   18.5
  9.0     28.58   36.20   23.13   475.7    .43     .02   1544.3   14.3
 12.0     28.55   36.20   23.14   474.9    .57     .04   1544.3   23.4
 15.0     28.50   36.20   23.16   473.4    .72     .05   1544.2   32.1
 18.0     28.40   36.20   23.19   470.4    .86     .08   1544.1   46.7
 21.0     28.18   36.20   23.26   463.6   1.00     .11   1543.6   47.4
 24.0     28.07   36.20   23.30   460.2   1.14     .14   1543.5   35.0
 27.0     28.00   36.20   23.32   458.2   1.28     .17   1543.4   38.6
 30.0     27.85   36.20   23.37   453.6   1.41     .21   1543.1   57.5
 33.0     27.30   36.11   23.48   443.1   1.55     .26   1541.8  123.0
 36.0     25.30   36.10   24.10   383.8   1.67     .30   1537.3  146.8
 39.0     24.23   36.23   24.53   343.6   1.78     .34   1535.0  109.1
 42.0     23.89   36.30   24.68   329.0   1.88     .39   1534.3   90.8
 45.0     22.92   36.25   24.93   305.7   1.98     .43   1531.9  123.7
 47.0     21.70   36.23   25.26   274.2   2.04     .46   1528.9  143.1
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           HYDROGRAPHIC CAST DATA   STATION 5 / TRANSECT II
                 8/ 4/77  1520 CST      SAMPLE CODE BMUY

DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND   BV
                            T               D       EN      VEL    FRQ

  0.0     29.80   36.34   22.82   504.3   0.00    0.00   1546.8    0.0
  3.0     29.80   36.34   22.82   504.7    .15     .00   1546.9   48.3
  6.0     29.38   36.30   22.94   494.1    .30     .01   1546.0   56.9
  9.0     29.25   36.30   22.98   490.0    .45     .02   1545.8   32.4
 12.0     29.23   36.30   22.99   489.5    .60     .04   1545.8   16.7
 15.0     29.21   36.30   22.99   489.0    .74     .06   1545.8   16.7
 18.0     29.19   36.30   23.00   488.5    .89     .08   1545.8   11.8
 21.0     29.19   36.30   23.00   488.6   1.04     .11   1545.9    0.0
 24.0     29.19   36.30   23.00   488.7   1.18     .14   1545.9    0.0
 27.0     29.19   36.30   23.00   488.8   1.33     .18   1546.0    0.0
 30.0     29.19   36.30   23.00   489.0   1.48     .23   1546.0   19.7
 33.0     29.00   36.24   23.02   487.3   1.62     .27   1545.6  105.7
 36.0     27.30   36.19   23.54   437.5   1.76     .32   1542.0  143.9
 39.0     26.00   36.28   24.02   391.7   1.89     .37   1539.2  137.1
 42.0     24.60   36.28   24.45   350.7   2.00     .42   1536.0   81.6
 45.0     24.83   36.23   24.35   361.1   2.10     .46   1536.5   24.8
 48.0     24.30   36.20   24.48   348.1   2.21     .51   1535.3   72.7
 51.0     23.90   36.20   24.60   336.9   2.31     .57   1534.4   75.4
 54.0     23.55   36.27   24.76   322.1   2.41     .62   1533.7   78.8
 57.0     23.00   36.25   24.90   308.4   2.51     .67   1532.3   71.7
 60.0     22.77   36.30   25.01   298.6   2.60     .73   1531.9   62.5
 63.0     22.42   36.28   25.09   290.6   2.69     .78   1531.0   63.6
 66.0     22.08   36.30   25.20   280.0   2.77     .84   1530.2   62.1
 69.0     21.81   36.30   25.28   272.9   2.86     .90   1529.6   69.6
 72.0     21.18   36.28   25.44   257.8   2.94     .96   1528.0   71.7
 75.0     20.85   36.28   25.53.  249.3   3.01    1.01   1527.1   61.0
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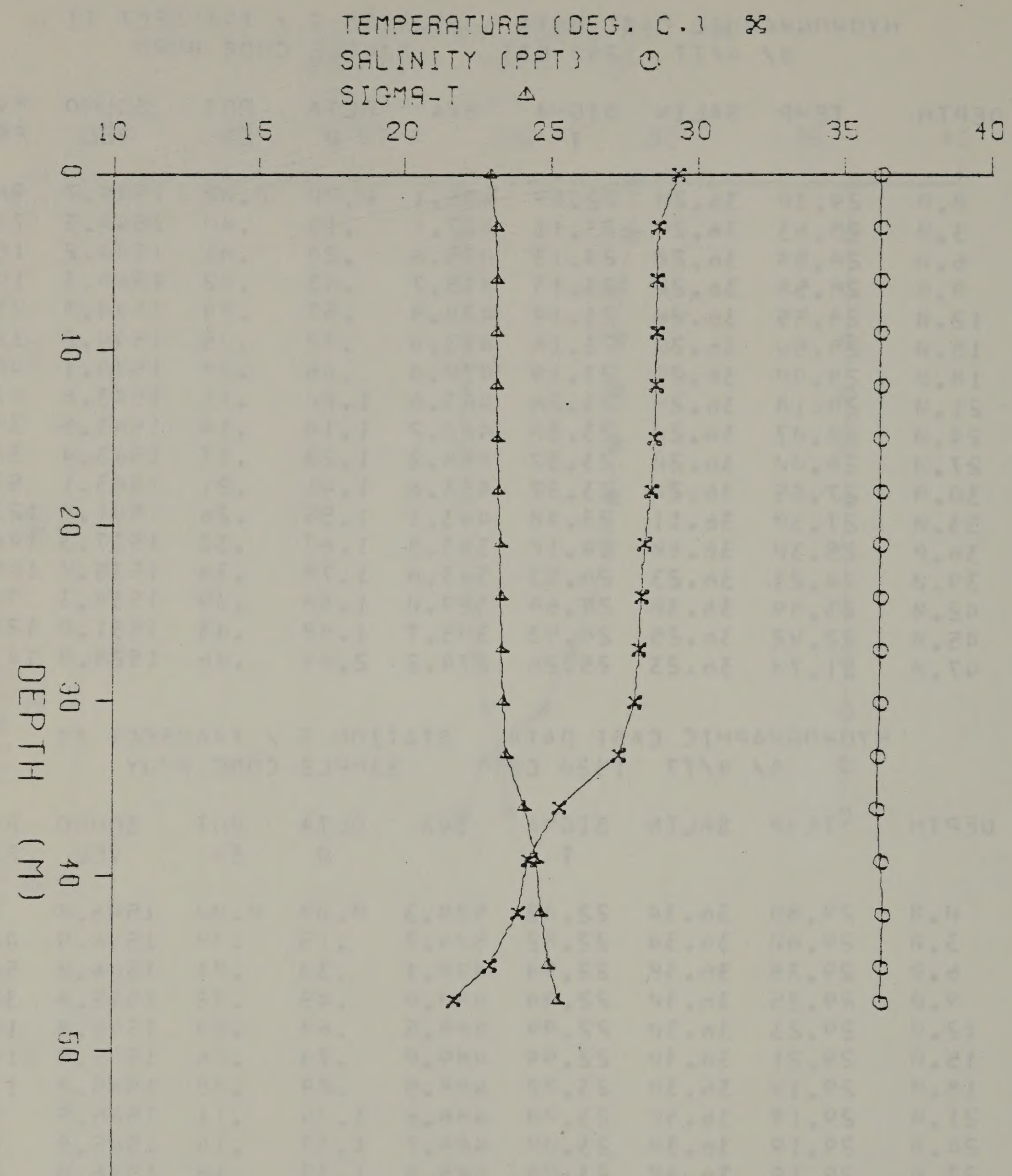
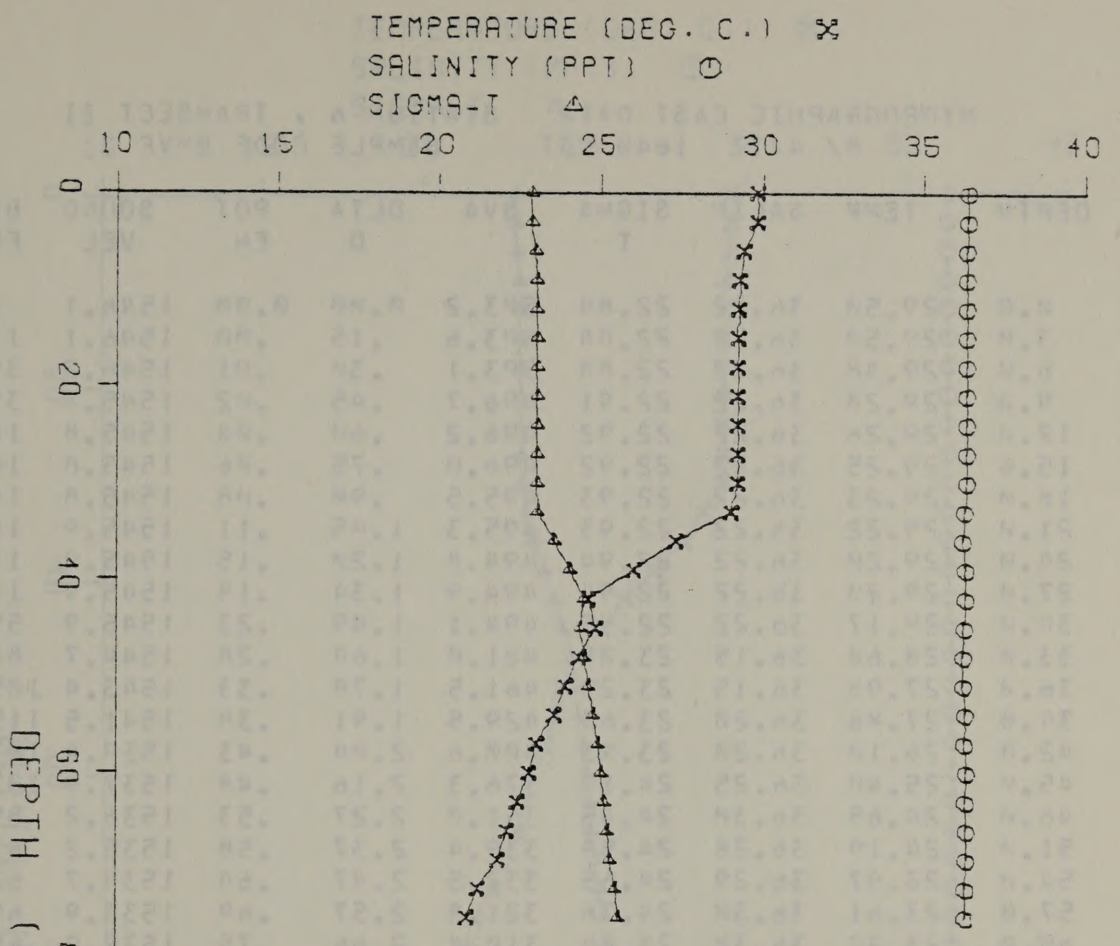


STATION 2 / TRANSECT II 8 /4 /77 1240 CST



STATION 5 / TRANSECT II 8 /4 /77 1520 CST

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          HYDROGRAPHIC CAST DATA   STATION 6 , TRANSECT II
                8/ 4/77  1640 CST      SAMPLE CODE BMVF

DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA     POT     SOUND    BV
                           T                D       EN      VEL     FRQ

  0.0     29.50  36.22   22.84    503.2   0.00    0.00    1546.1    0.0
  3.0     29.50  36.22   22.84    503.6    .15     .00    1546.1   11.8
  6.0     29.48  36.22   22.84    503.1    .30     .01    1546.2   39.2
  9.0     29.28  36.22   22.91    496.7    .45     .02    1545.8   39.2
 12.0     29.26  36.22   22.92    496.2    .60     .04    1545.8   14.5
 15.0     29.25  36.22   22.92    496.0    .75     .06    1545.8   14.5
 18.0     29.23  36.22   22.93    495.5    .90     .08    1545.8   14.5
 21.0     29.22  36.22   22.93    495.3   1.05     .11    1545.9   14.5
 24.0     29.20  36.22   22.94    494.8   1.20     .15    1545.9   11.8
 27.0     29.20  36.22   22.94    494.9   1.34     .18    1545.9   14.5
 30.0     29.17  36.22   22.95    494.1   1.49     .23    1545.9   55.4
 33.0     28.60  36.15   23.08    481.0   1.64     .28    1544.7   84.2
 36.0     27.98  36.15   23.29    461.5   1.78     .33    1543.4  105.7
 39.0     27.06  36.20   23.63    429.5   1.91     .38    1541.5  115.0
 42.0     26.10  36.20   23.93    400.6   2.04     .43    1539.4  107.5
 45.0     25.40  36.25   24.19    376.3   2.16     .48    1537.9  103.8
 48.0     24.65  36.30   24.45    351.0   2.27     .53    1536.2   89.7
 51.0     24.19  36.28   24.58    339.4   2.37     .58    1535.2   63.6
 54.0     23.97  36.29   24.65    332.5   2.47     .64    1534.7   62.1
 57.0     23.61  36.30   24.76    321.8   2.57     .69    1533.9   69.5
 60.0     23.20  36.30   24.88    310.4   2.66     .75    1532.9   65.6
 63.0     22.92  36.31   24.97    302.1   2.76     .81    1532.3   51.8
 66.0     22.75  36.30   25.01    298.2   2.85     .87    1531.9   63.8
 69.0     22.23  36.31   25.17    283.5   2.93     .93    1530.7   68.3
 72.0     21.98  36.31   25.24    276.9   3.02     .99    1530.1   65.7
 75.0     21.40  36.28   25.38    263.7   3.10    1.05    1528.6   68.3
 78.0     21.00  36.25   25.47    255.5   3.18    1.11    1527.6   61.7
 81.0     20.60  36.25   25.56    246.3   3.25    1.17    1526.6   57.9
 84.0     20.40  36.25   25.63    240.2   3.33    1.24    1526.1   50.9
 87.0     20.20  36.26   25.69    234.5   3.40    1.30    1525.6   39.8
 90.0     20.17  36.27   25.71    233.1   3.47    1.36    1525.6   35.4
 93.0     20.00  36.27   25.75    228.9   3.54    1.43    1525.1   36.2
 96.0     19.93  36.27   25.77    227.3   3.61    1.49    1525.0   19.5
 99.0     19.93  36.27   25.77    227.4   3.67    1.56    1525.0    0.0
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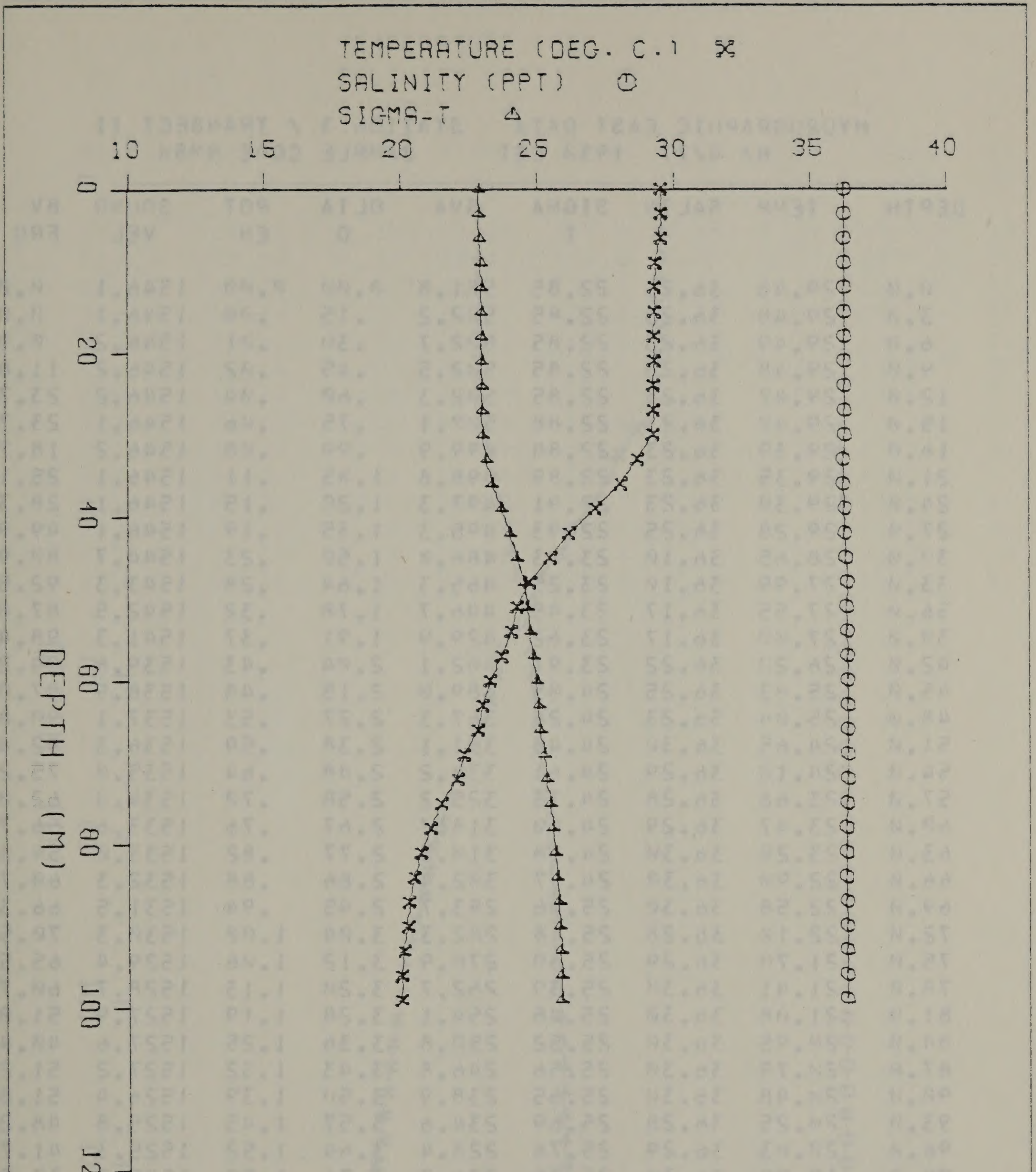

STATION 6 , TRANSECT II 8 /4 /77 1640 CST

```
              HYDROGRAPHIC CAST DATA   STATION 3 / TRANSECT II
                   8/ 4/77  1930 CST     SAMPLE CODE BMSW

DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA    POT    SOUND    BV
                            T                D     EN      VEL    FRQ

  0.0     29.48   36.23   22.85   501.8   0.00   0.00   1546.1    0.0
  3.0     29.48   36.23   22.85   502.2    .15    .00   1546.1    0.0
  6.0     29.49   36.23   22.85   502.7    .30    .01   1546.2    0.0
  9.0     29.48   36.23   22.85   502.5    .45    .02   1546.2   11.8
 12.0     29.47   36.23   22.85   502.3    .60    .04   1546.2   23.7
 15.0     29.40   36.23   22.88   500.1    .75    .06   1546.1   23.7
 18.0     29.39   36.23   22.88   499.9    .90    .08   1546.2   18.7
 21.0     29.35   36.23   22.89   498.8   1.05    .11   1546.1   25.1
 24.0     29.30   36.23   22.91   497.3   1.20    .15   1546.1   28.3
 27.0     29.28   36.25   22.93   495.3   1.35    .19   1546.1   49.9
 30.0     28.65   36.10   23.03   486.0   1.50    .23   1544.7   80.9
 33.0     27.99   36.10   23.25   465.3   1.64    .28   1543.3   92.5
 36.0     27.55   36.17   23.45   446.7   1.78    .32   1542.5   87.8
 39.0     27.00   36.17   23.62   429.9   1.91    .37   1541.3   98.4
 42.0     26.20   36.22   23.91   402.1   2.04    .43   1539.6   94.2
 45.0     25.83   36.25   24.05   389.0   2.15    .48   1538.9   87.0
 48.0     25.04   36.23   24.28   367.3   2.27    .53   1537.1   90.8
 51.0     24.65   36.30   24.45   351.1   2.38    .59   1536.3   82.4
 54.0     24.10   36.29   24.61   336.2   2.48    .64   1535.0   75.2
 57.0     23.68   36.28   24.73   325.2   2.58    .70   1534.0   62.0
 60.0     23.47   36.29   24.80   318.7   2.67    .76   1533.6   56.7
 63.0     23.20   36.30   24.88   310.5   2.77    .82   1533.0   59.8
 66.0     22.90   36.30   24.97   302.4   2.86    .88   1532.3   60.7
 69.0     22.58   36.30   25.06   293.7   2.95    .94   1531.5   66.3
 72.0     22.10   36.28   25.18   282.3   3.04   1.00   1530.3   70.5
 75.0     21.70   36.29   25.30   270.9   3.12   1.06   1529.4   65.5
 78.0     21.41   36.30   25.39   262.7   3.20   1.13   1528.7   60.7
 81.0     21.08   36.30   25.48   254.1   3.28   1.19   1527.9   51.0
 84.0     20.95   36.30   25.52   250.8   3.36   1.25   1527.6   40.4
 87.0     20.79   36.30   25.56   246.8   3.43   1.32   1527.2   51.2
 90.0     20.48   36.30   25.65   238.9   3.50   1.39   1526.4   51.8
 93.0     20.25   36.28   25.69   234.6   3.57   1.45   1525.8   48.2
 96.0     20.03   36.29   25.76   228.4   3.64   1.52   1525.3   41.7
 99.0     19.99   36.30   25.78   226.7   3.71   1.59   1525.2   37.5
102.0     19.80   36.30   25.83   222.1   3.78   1.66   1524.8   43.0
105.0     19.65   36.30   25.87   218.4   3.85   1.73   1524.4   35.3
108.0     19.57   36.30   25.89   216.5   3.91   1.80   1524.2   34.5
111.0     19.40   36.29   25.92   213.1   3.98   1.87   1523.8   32.9
114.0     19.28   36.27   25.94   211.7   4.04   1.95   1523.5   22.2
117.0     19.19   36.25   25.95   211.0   4.10   2.02   1523.3   37.9
120.0     18.95   36.25   26.01   205.2   4.17   2.10   1522.7   43.6
123.0     18.80   36.24   26.04   202.4   4.23   2.17   1522.3   37.7
126.0     18.65   36.24   26.08   198.9   4.29   2.25   1521.9   39.6
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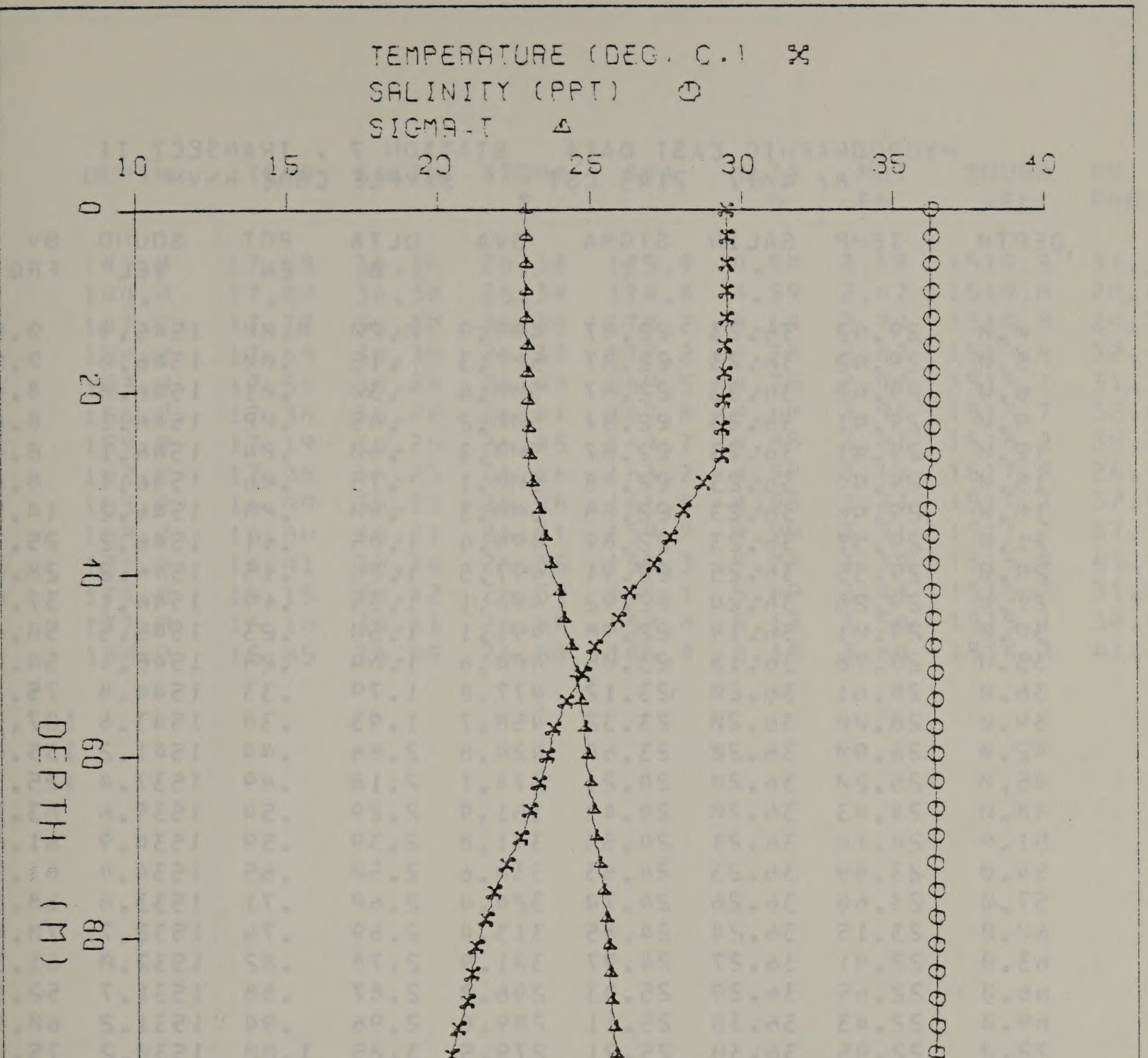


STATION 3 / TRANSECT II 8 /4 /77 1930 CST

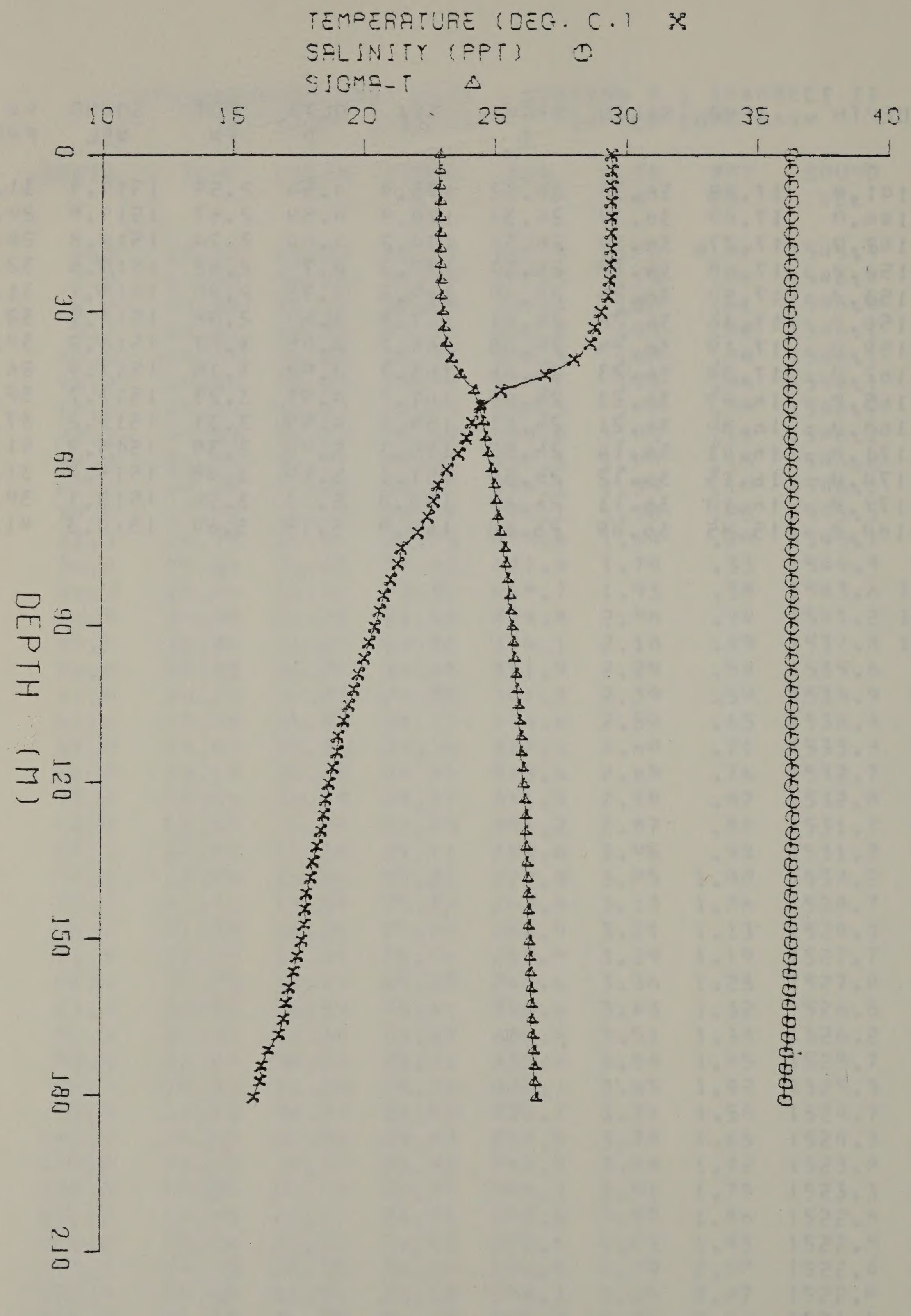
HYDROGRAPHIC CAST DATA STATION 7 , TRANSECT II

8/ 4/77 2145 CST SAMPLE CODE BMVM

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND VEL	BV FRQ
0.0	29.42	36.23	22.87	499.9	0.00	0.00	1545.9	0.0
3.0	29.42	36.23	22.87	500.3	.15	.00	1546.0	0.0
6.0	29.42	36.23	22.87	500.4	.30	.01	1546.0	8.4
9.0	29.41	36.23	22.87	500.2	.45	.02	1546.1	8.4
12.0	29.41	36.23	22.87	500.3	.60	.04	1546.1	8.4
15.0	29.40	36.23	22.88	500.1	.75	.06	1546.1	8.4
18.0	29.40	36.23	22.88	500.3	.90	.08	1546.2	14.5
21.0	29.37	36.23	22.89	499.4	1.05	.11	1546.2	25.7
24.0	29.35	36.25	22.91	497.5	1.20	.15	1546.2	28.0
27.0	29.28	36.24	22.92	496.1	1.35	.19	1546.1	37.9
30.0	29.01	36.19	22.98	491.1	1.50	.23	1545.5	50.4
33.0	28.78	36.18	23.05	484.6	1.64	.28	1545.1	54.0
36.0	28.61	36.20	23.12	477.8	1.79	.33	1544.8	75.1
39.0	28.00	36.20	23.32	458.7	1.93	.38	1543.6	107.3
42.0	26.90	36.20	23.68	424.8	2.06	.44	1541.2	135.4
45.0	25.20	36.20	24.21	374.1	2.18	.49	1537.4	125.7
48.0	24.43	36.20	24.44	351.9	2.29	.54	1535.6	83.7
51.0	24.10	36.21	24.55	341.8	2.39	.59	1534.9	61.6
54.0	23.89	36.23	24.63	334.6	2.50	.65	1534.4	61.9
57.0	23.60	36.26	24.74	324.4	2.60	.71	1533.8	68.1
60.0	23.15	36.24	24.85	313.4	2.69	.76	1532.7	70.0
63.0	22.81	36.27	24.97	301.9	2.78	.82	1532.0	61.3
66.0	22.65	36.29	25.03	296.2	2.87	.88	1531.7	52.1
69.0	22.43	36.30	25.11	289.6	2.96	.94	1531.2	60.6
72.0	22.05	36.30	25.21	279.5	3.05	1.00	1530.2	75.0
75.0	21.43	36.29	25.38	263.8	3.13	1.06	1528.7	63.7
78.0	21.29	36.28	25.41	260.9	3.21	1.13	1528.4	50.9
81.0	21.00	36.30	25.50	252.0	3.29	1.19	1527.7	57.9
84.0	20.75	36.30	25.57	245.6	3.36	1.25	1527.0	46.8
87.0	20.58	36.29	25.61	242.1	3.43	1.32	1526.6	44.1
90.0	20.40	36.30	25.67	236.8	3.51	1.38	1526.2	45.8
93.0	20.20	36.29	25.71	232.6	3.58	1.45	1525.7	44.0
96.0	20.02	36.29	25.76	228.1	3.65	1.52	1525.3	48.9
99.0	19.79	36.30	25.83	221.7	3.71	1.58	1524.7	48.3
102.0	19.62	36.30	25.87	217.5	3.78	1.65	1524.3	44.1
105.0	19.43	36.30	25.92	212.9	3.84	1.72	1523.8	45.1
108.0	19.24	36.30	25.97	208.3	3.91	1.79	1523.3	47.8
111.0	19.03	36.31	26.03	202.5	3.97	1.86	1522.8	35.7
114.0	19.00	36.30	26.03	202.6	4.03	1.93	1522.8	37.0
117.0	18.83	36.33	26.10	196.4	4.09	2.00	1522.4	42.9
120.0	18.68	36.31	26.12	194.3	4.15	2.07	1522.0	40.9
123.0	18.57	36.35	26.18	188.9	4.21	2.14	1521.8	43.4
126.0	18.50	36.37	26.22	185.8	4.26	2.21	1521.6	29.7
129.0	18.40	36.35	26.23	185.0	4.32	2.29	1521.4	22.5
132.0	18.25	36.32	26.24	183.6	4.38	2.36	1521.0	29.4
135.0	18.08	36.30	26.27	181.1	4.43	2.44	1520.5	31.9
138.0	17.99	36.30	26.29	179.1	4.48	2.51	1520.3	34.3

```
DEPTH     TEMP   SALIN   SIGMA    SVA    DLTA    POT    SOUND    BV
                           T               D      EN     VEL     FRQ

141.0    17.85   36.30   26.32   175.9   4.54   2.59   1519.9   31.1
144.0    17.80   36.30   26.34   174.8   4.59   2.67   1519.8   20.2
147.0    17.77   36.30   26.34   174.2   4.64   2.74   1519.8   24.7
150.0    17.68   36.30   26.37   172.2   4.70   2.82   1519.6   32.4
153.0    17.50   36.28   26.40   169.5   4.75   2.90   1519.1   31.3
156.0    17.36   36.26   26.41   167.8   4.80   2.98   1518.7   32.8
159.0    17.19   36.25   26.45   164.7   4.85   3.07   1518.2   30.3
162.0    17.08   36.23   26.46   163.7   4.90   3.15   1517.9   26.0
165.0    16.99   36.23   26.48   161.8   4.95   3.23   1517.7   32.6
168.0    16.80   36.21   26.51   159.0   4.99   3.31   1517.2   37.5
171.0    16.41   36.14   26.55   155.3   5.04   3.39   1515.9   41.5
174.0    16.15   36.12   26.59   151.1   5.09   3.48   1515.2   31.8
177.0    16.10   36.11   26.60   150.8   5.13   3.56   1515.1   30.8
180.0    15.85   36.09   26.64   146.8   5.18   3.64   1514.3   41.7
```



STATION 7 , TRANSECT II 8 /4 /77 2145 CST

```
        HYDROGRAPHIC CAST DATA   STATION 4 / TRANSECT I
             9/11/77  2040 CST      SAMPLE CODE BOGF

DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA    POT    SOUND   BV
                           T                D     EN      SPD    FRQ

  0.0    29.82   33.00   20.31   744.9   0.00   0.00   1543.3    0.0
  3.0    29.82   33.00   20.31   745.3    .22    .00   1543.4    0.0
  6.0    29.82   33.00   20.31   745.4    .45    .01   1543.4  138.9
  9.0    29.39   34.05   21.24   656.1    .66    .03   1543.7  138.8
 10.0    29.39   34.05   21.24   656.1 .  .72    .04   1543.7    0.0
```

```
        HYDROGRAPHIC CAST DATA   STATION 1 / TRANSECT I
             9/11/77  2135 CST      SAMPLE CODE BUAJ

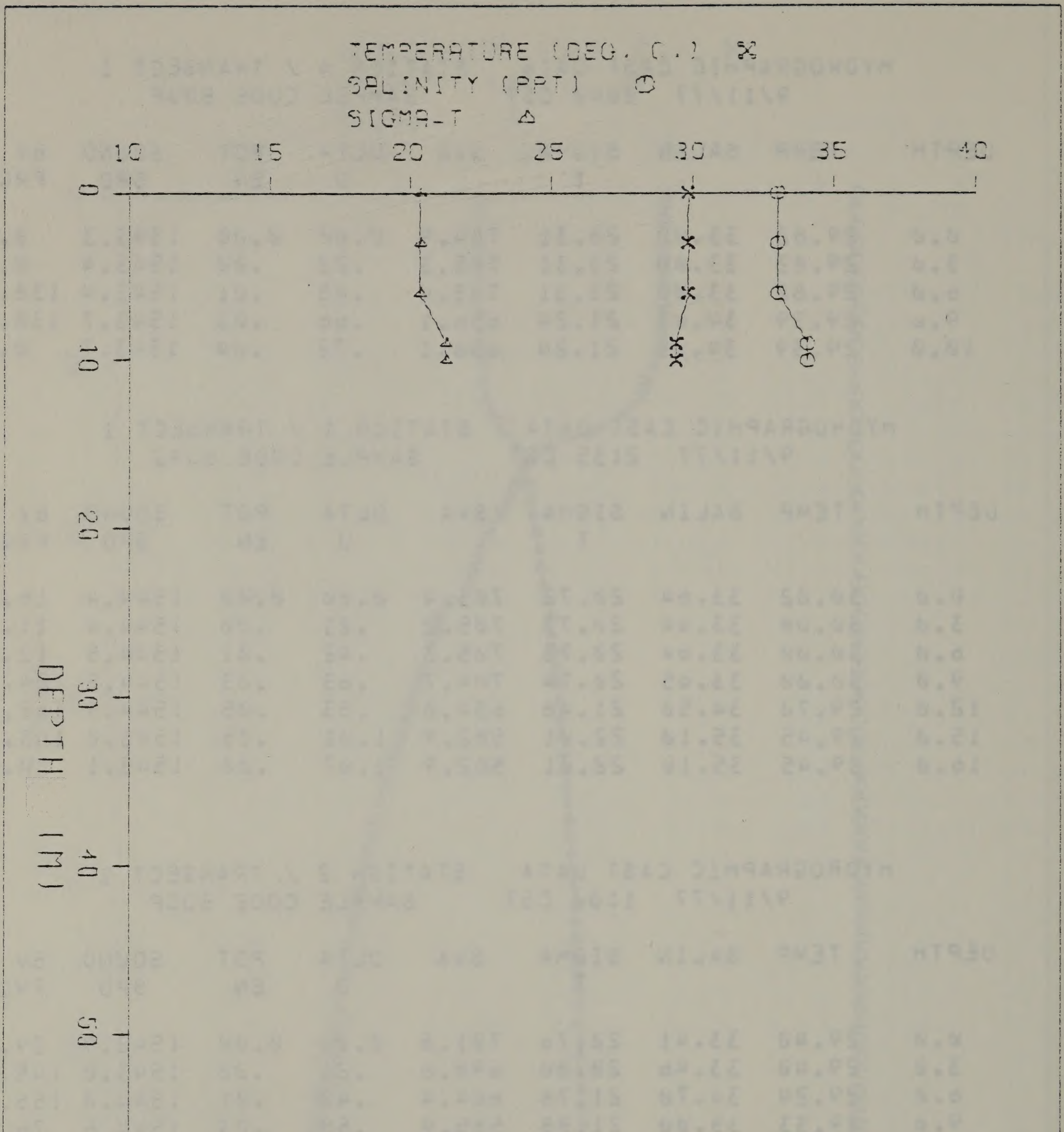
DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA    POT    SOUND   BV
                           T                D     EN      SPD    FRQ

  0.0    30.02   33.64   20.72   705.4   0.00   0.00   1544.4   16.8
  3.0    30.00   33.64   20.73   705.2    .21    .00   1544.4   11.9
  6.0    30.00   33.64   20.73   705.3    .42    .01   1544.5   12.4
  9.0    30.00   33.65   20.74   704.7    .63    .03   1544.5  124.3
 12.0    29.70   34.50   21.48   634.0    .83    .05   1544.9  162.3
 15.0    29.45   35.10   22.01   582.9   1.01    .08   1545.0  165.1
 16.0    29.45   35.10   22.01   582.9   1.07    .08   1545.1    0.0
```

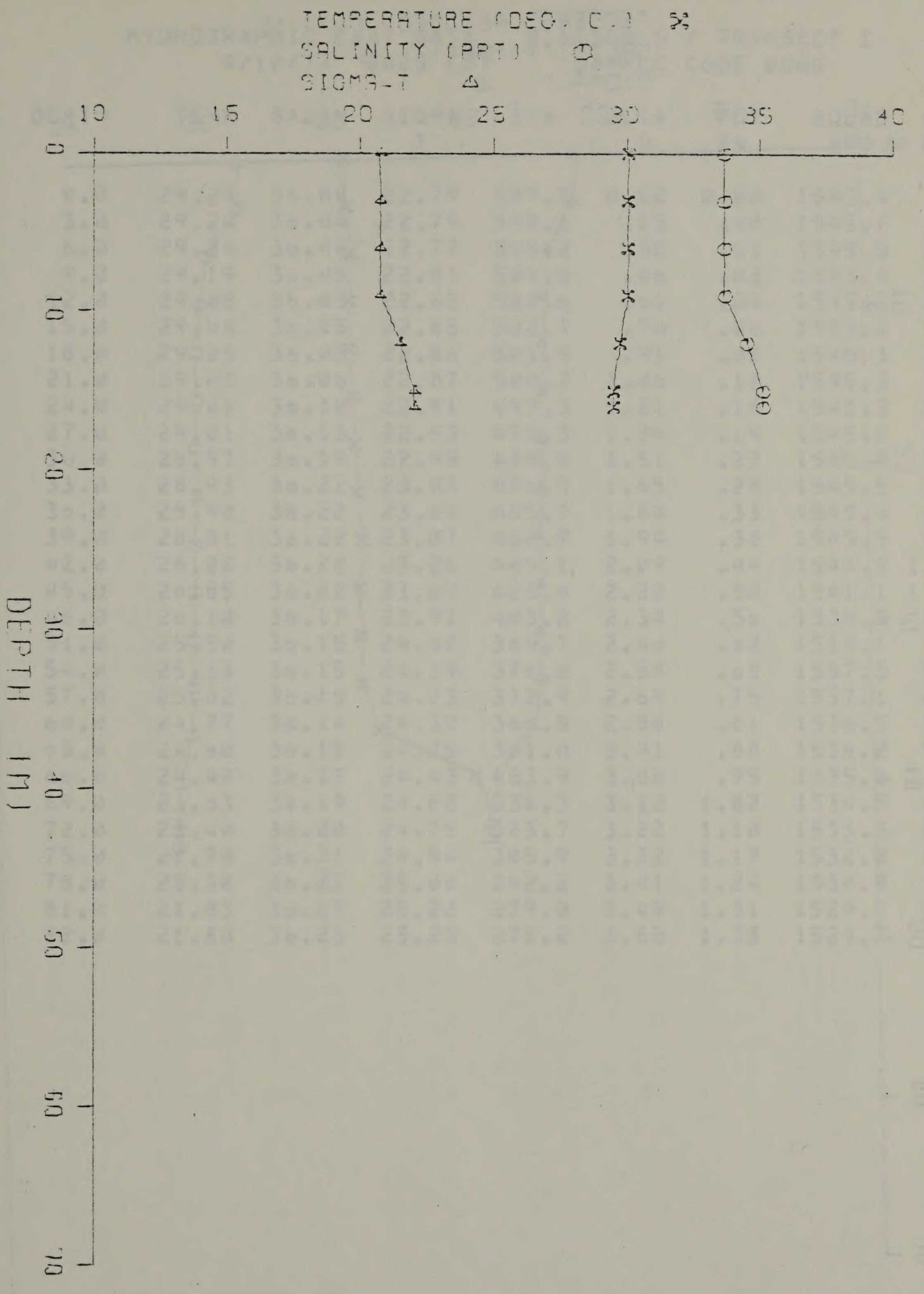
```
        HYDROGRAPHIC CAST DATA   STATION 2 / TRANSECT I
             9/11/77  1100 CST      SAMPLE CODE BOCF

DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA    POT    SOUND   BV
                           T                D     EN      SPD    FRQ

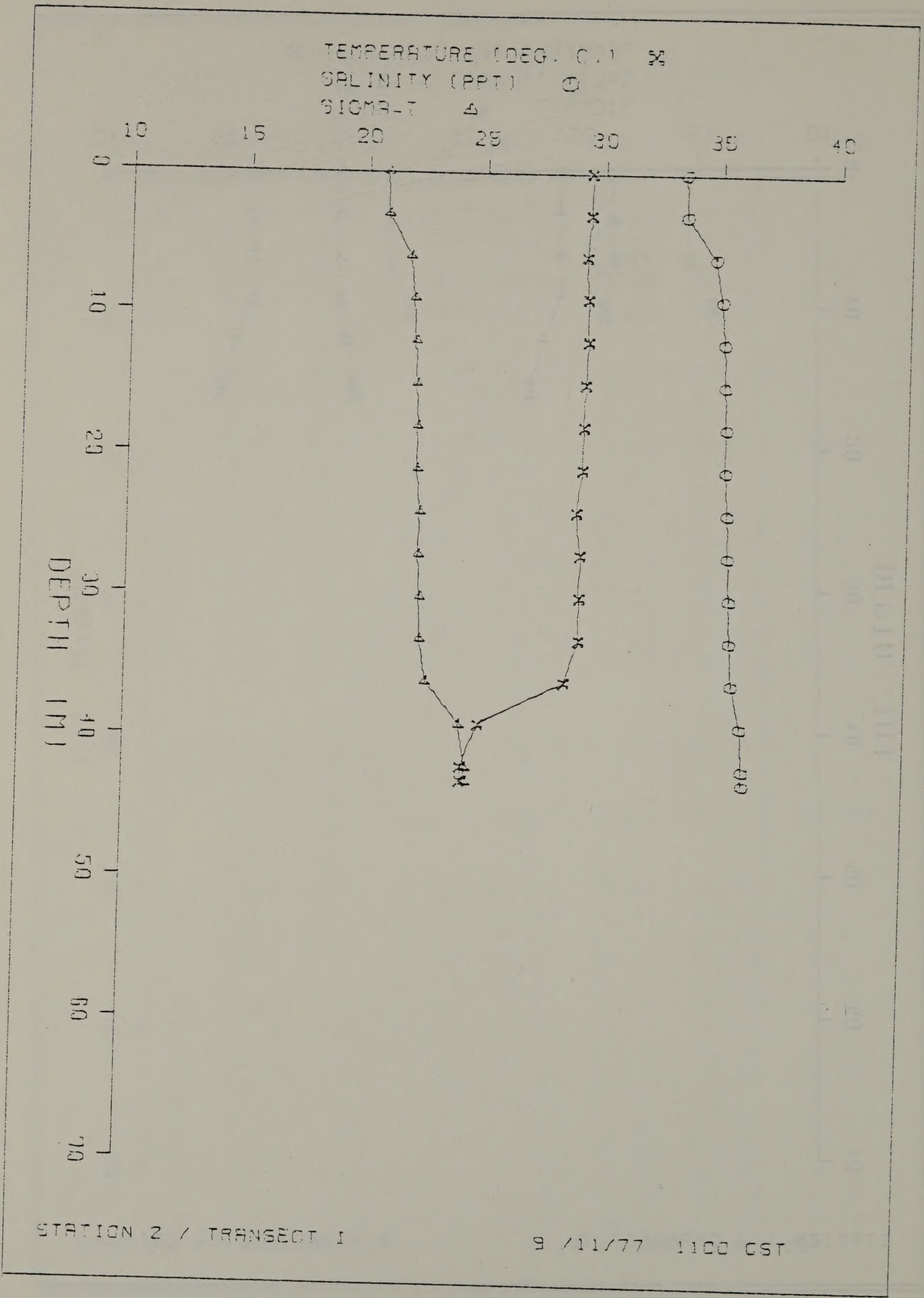
  0.0    29.40   33.41   20.76   701.8   0.00   0.00   1542.9   39.4
  3.0    29.40   33.46   20.80   698.6    .21    .00   1543.0  145.3
  6.0    29.24   34.70   21.78   604.4    .40    .01   1544.0  156.0
  9.0    29.33   35.00   21.98   585.9    .58    .03   1544.6   76.5
 12.0    29.38   35.14   22.06   577.6    .76    .04   1544.9   58.7
 15.0    29.28   35.20   22.14   570.2    .93    .07   1544.8   54.7
 18.0    29.24   35.27   22.21   564.0   1.10    .10   1544.8   37.9
 21.0    29.23   35.27   22.21   563.8   1.27    .13   1544.9   58.1
 24.0    29.00   35.38   22.37   548.6   1.43    .17   1544.5   51.9
 27.0    29.20   35.43   22.34   551.6   1.60    .21   1545.1   32.8
 30.0    29.18   35.53   22.43   543.9   1.76    .26   1545.2   48.9
 33.0    29.19   35.58   22.46   540.8   1.93    .31   1545.3   81.5
 36.0    28.60   35.70   22.75   513.4   2.09    .37   1544.2  189.3
 39.0    25.00   36.10   24.20   375.2   2.22    .42   1536.7  190.3
 42.0    24.28   36.22   24.50   345.9   2.33    .46   1535.2   83.7
 43.0    24.27   36.23   24.51   344.9   2.36    .48   1535.2   36.1
```



STATION 4 / TRANSECT I 9 /11/77 2040 CST



STATION 1 / TRANSECT I 9 /11/77 2135 CST

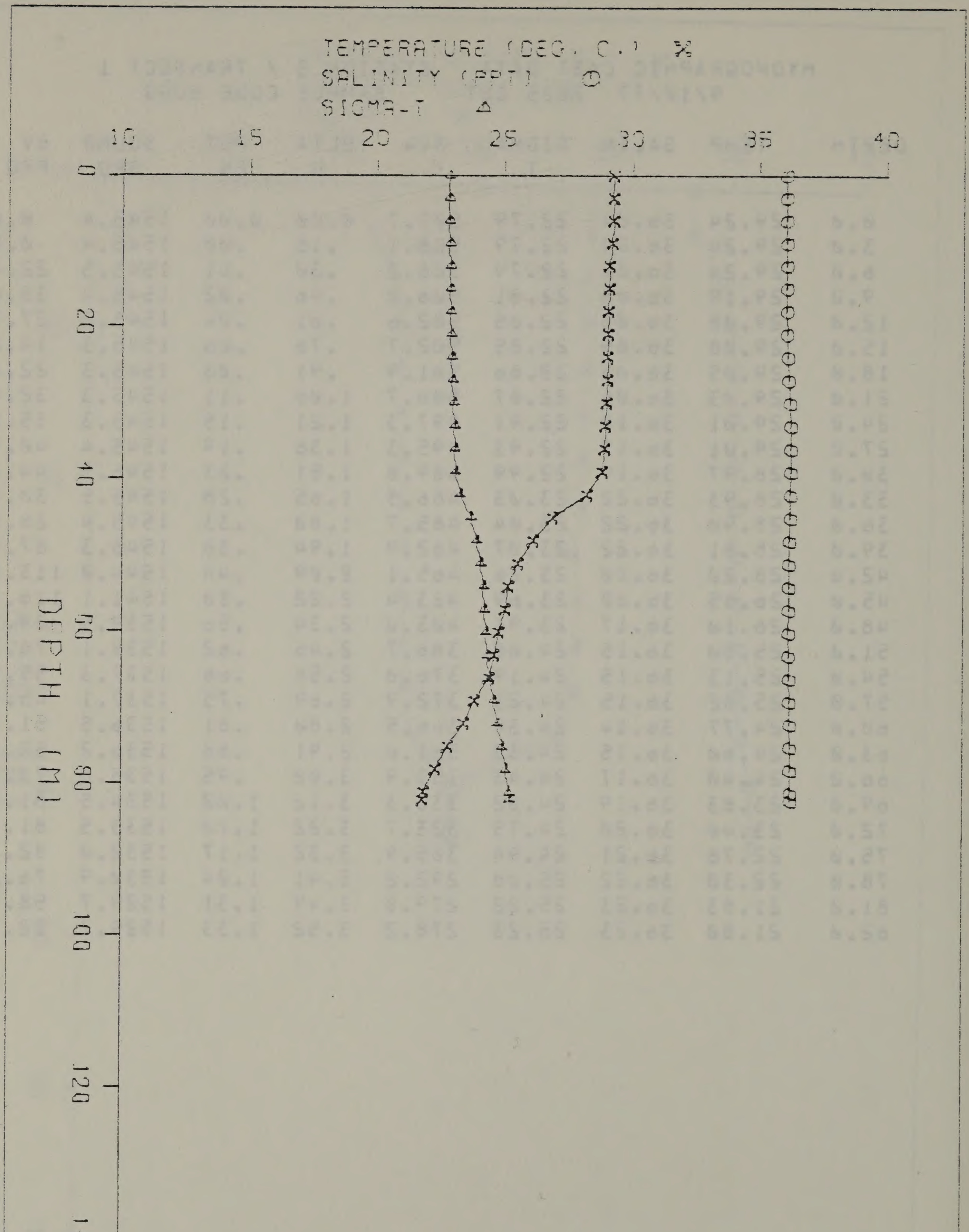


STATION 2 / TRANSECT I

9 /11/77 1100 CST

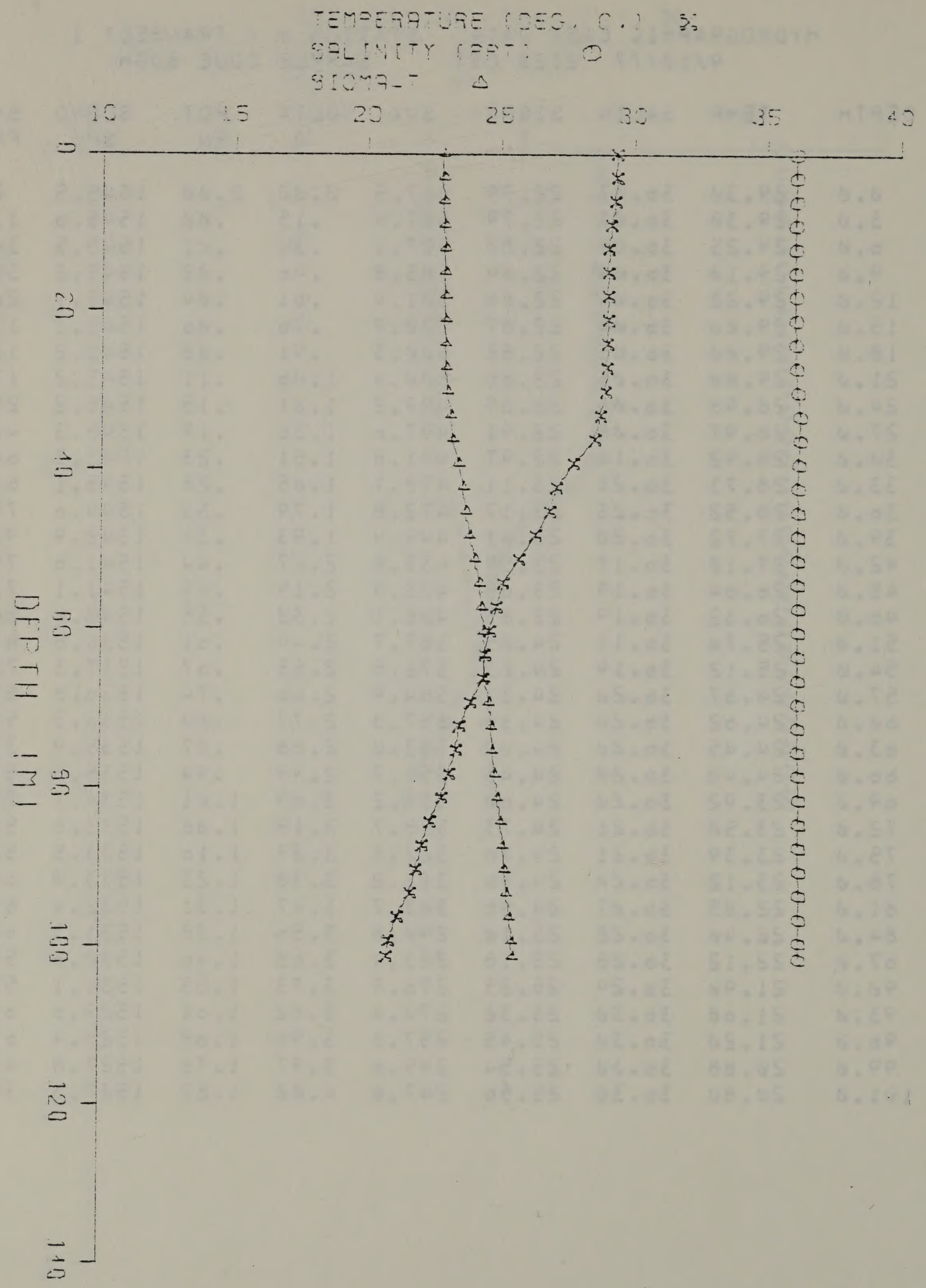
HYDROGRAPHIC CAST DATA   STATION 5 / TRANSECT I
9/10/77 2025 CST   SAMPLE CODE BUGG

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.24	36.04	22.79	507.7	0.00	0.00	1545.4	0.0
3.0	29.24	36.04	22.79	508.1	.15	.00	1545.4	0.0
6.0	29.24	36.04	22.79	508.2	.30	.01	1545.5	22.4
9.0	29.19	36.05	22.81	506.0	.46	.02	1545.4	35.6
12.0	29.08	36.05	22.85	502.6	.61	.04	1545.2	27.7
15.0	29.08	36.05	22.85	502.7	.76	.06	1545.3	14.4
18.0	29.05	36.05	22.86	501.9	.91	.08	1545.3	22.4
21.0	29.03	36.06	22.87	500.7	1.06	.11	1545.3	32.4
24.0	29.01	36.10	22.91	497.3	1.21	.15	1545.3	35.0
27.0	29.01	36.13	22.93	495.3	1.36	.19	1545.4	40.9
30.0	28.97	36.19	22.99	489.8	1.51	.23	1545.5	44.2
33.0	28.93	36.22	23.03	486.5	1.65	.28	1545.5	30.8
36.0	28.90	36.22	23.04	485.7	1.80	.33	1545.4	28.8
39.0	28.81	36.22	23.07	482.9	1.94	.38	1545.3	67.0
42.0	28.20	36.20	23.26	465.1	2.09	.44	1544.0	113.6
45.0	26.85	36.20	23.69	423.4	2.22	.50	1541.1	116.1
48.0	26.10	36.17	23.91	403.0	2.34	.56	1539.5	89.3
51.0	25.50	36.15	24.08	386.7	2.46	.62	1538.1	76.7
54.0	25.13	36.15	24.19	376.0	2.58	.68	1537.3	55.1
57.0	25.02	36.15	24.23	372.9	2.69	.75	1537.1	45.9
60.0	24.77	36.14	24.30	366.5	2.80	.81	1536.5	51.3
63.0	24.60	36.15	24.35	361.0	2.91	.88	1536.2	52.6
66.0	24.40	36.17	24.43	353.9	3.02	.95	1535.8	73.3
69.0	23.83	36.19	24.62	336.3	3.12	1.02	1534.5	81.1
72.0	23.40	36.20	24.75	323.7	3.22	1.10	1533.5	81.4
75.0	22.78	36.21	24.94	305.9	3.32	1.17	1532.0	82.7
78.0	22.30	36.22	25.08	292.2	3.41	1.24	1530.9	76.6
81.0	21.83	36.23	25.22	279.0	3.49	1.31	1529.7	58.4
82.0	21.80	36.23	25.23	278.2	3.52	1.33	1529.7	32.2


TEMPERATURE (DEG. C.) X
SALINITY (PPT) O
SIGMA-T Δ
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
STATION 5 / TRANSECT I
9 /10/77 2025 CST

HYDROGRAPHIC CAST DATA   STATION 6 / TRANSECT I
9/10/77   2120 CST   SAMPLE CODE BUGH

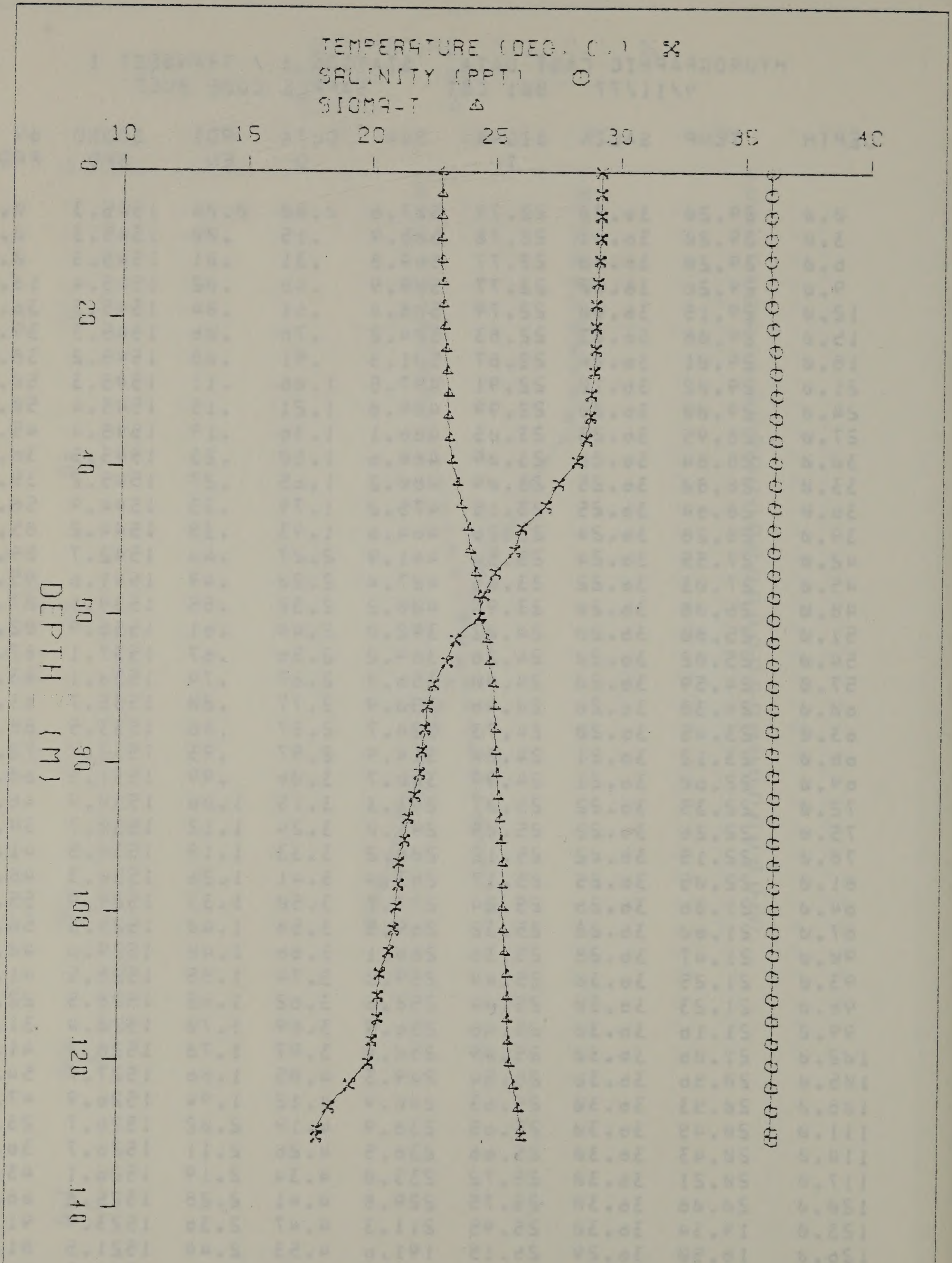
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.30	36.07	22.79	507.5	0.00	0.00	1545.5	0.0
3.0	29.30	36.07	22.79	507.9	.15	.00	1545.6	13.9
6.0	29.25	36.06	22.80	507.1	.30	.01	1545.5	30.4
9.0	29.10	36.04	22.84	503.8	.46	.02	1545.2	35.9
12.0	29.02	36.04	22.86	501.4	.61	.04	1545.1	26.3
15.0	29.00	36.04	22.87	500.9	.76	.06	1545.1	17.1
18.0	29.00	36.05	22.88	500.3	.91	.08	1545.2	12.5
21.0	29.00	36.05	22.88	500.4	1.06	.11	1545.2	17.1
24.0	28.98	36.06	22.89	499.2	1.21	.15	1545.2	25.9
27.0	28.97	36.08	22.91	497.6	1.36	.19	1545.3	40.7
30.0	28.92	36.14	22.97	491.8	1.51	.23	1545.3	64.3
33.0	28.73	36.24	23.11	478.7	1.65	.28	1545.1	64.4
36.0	28.52	36.23	23.17	472.8	1.79	.33	1544.6	79.1
39.0	27.72	36.20	23.41	449.9	1.93	.38	1542.9	93.0
42.0	27.10	36.17	23.59	433.0	2.07	.44	1541.6	75.5
45.0	26.84	36.19	23.69	423.8	2.19	.49	1541.1	73.7
48.0	26.32	36.19	23.85	408.1	2.32	.55	1540.0	86.1
51.0	25.70	36.19	24.05	389.7	2.44	.61	1538.6	87.7
54.0	25.12	36.19	24.23	372.8	2.55	.67	1537.3	73.6
57.0	24.87	36.20	24.31	364.9	2.66	.74	1536.8	57.4
60.0	24.62	36.20	24.39	357.8	2.77	.80	1536.3	51.2
63.0	24.45	36.20	24.44	353.0	2.88	.87	1535.9	37.0
66.0	24.40	36.20	24.45	351.7	2.99	.94	1535.8	57.1
69.0	23.92	36.20	24.60	338.2	3.09	1.01	1534.7	75.3
72.0	23.50	36.21	24.73	325.7	3.19	1.08	1533.8	58.1
75.0	23.39	36.21	24.76	322.8	3.29	1.16	1533.5	52.5
78.0	23.12	36.24	24.86	313.2	3.38	1.23	1533.0	64.6
81.0	22.85	36.27	24.96	303.7	3.47	1.31	1532.4	69.9
84.0	22.40	36.28	25.10	290.8	3.56	1.38	1531.3	66.7
87.0	22.12	36.28	25.18	283.4	3.65	1.46	1530.6	55.4
90.0	21.96	36.29	25.25	276.9	3.73	1.53	1530.1	53.5
93.0	21.68	36.30	25.32	270.4	3.82	1.61	1529.6	64.5
96.0	21.20	36.30	25.45	257.8	3.90	1.69	1528.4	67.4
99.0	20.88	36.30	25.54	249.6	3.97	1.76	1527.6	49.8
101.0	20.80	36.30	25.56	247.6	4.02	1.82	1527.5	36.7



STATION 6 / TRANSECT 1 9/10/77 2120 CST

HYDROGRAPHIC CAST DATA   STATION 3 / TRANSECT I
9/11/77   001 CST   SAMPLE CODE BUEF

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.20	36.02	22.79	507.8	0.00	0.00	1545.3	0.0
3.0	29.20	36.01	22.78	508.9	.15	.00	1545.3	0.0
6.0	29.20	36.00	22.77	509.8	.31	.01	1545.3	0.0
9.0	29.20	36.00	22.77	509.9	.46	.02	1545.4	18.7
12.0	29.15	36.00	22.79	508.4	.61	.04	1545.3	36.0
15.0	29.08	36.03	22.83	504.2	.76	.06	1545.3	39.9
18.0	29.01	36.04	22.87	501.3	.91	.08	1545.2	38.8
21.0	29.02	36.10	22.91	497.5	1.06	.11	1545.3	50.5
24.0	29.00	36.20	22.99	489.8	1.21	.15	1545.4	50.0
27.0	28.95	36.23	23.03	486.1	1.36	.19	1545.4	45.1
30.0	28.84	36.26	23.09	480.6	1.50	.23	1545.3	36.7
33.0	28.80	36.25	23.09	480.2	1.65	.27	1545.2	35.0
36.0	28.64	36.25	23.15	475.2	1.79	.33	1544.9	58.4
39.0	28.28	36.24	23.26	464.6	1.93	.38	1544.2	85.1
42.0	27.55	36.24	23.50	441.9	2.07	.44	1542.7	89.9
45.0	27.03	36.22	23.65	427.4	2.20	.49	1541.6	95.2
48.0	26.08	36.20	23.94	400.2	2.32	.55	1539.5	87.8
51.0	25.80	36.20	24.02	392.0	2.44	.61	1538.9	82.2
54.0	25.02	36.20	24.26	369.2	2.56	.67	1537.1	87.5
57.0	24.59	36.20	24.40	356.8	2.67	.74	1536.1	63.2
60.0	24.38	36.20	24.46	350.9	2.77	.80	1535.7	83.6
63.0	23.45	36.20	24.73	324.7	2.87	.86	1533.5	88.5
66.0	23.12	36.21	24.84	314.9	2.97	.93	1532.7	72.3
69.0	22.60	36.21	24.99	300.7	3.06	.99	1531.5	68.7
72.0	22.35	36.22	25.07	293.3	3.15	1.06	1530.9	46.4
75.0	22.26	36.22	25.09	291.0	3.24	1.12	1530.7	34.2
78.0	22.15	36.22	25.12	288.2	3.33	1.19	1530.5	41.1
81.0	22.05	36.25	25.17	283.4	3.41	1.26	1530.3	48.0
84.0	21.86	36.26	25.24	277.7	3.50	1.33	1529.9	55.4
87.0	21.60	36.28	25.32	269.5	3.58	1.40	1529.3	50.5
90.0	21.47	36.28	25.36	266.1	3.66	1.48	1529.0	48.1
93.0	21.25	36.30	25.44	259.0	3.74	1.55	1528.5	41.0
96.0	21.23	36.30	25.44	258.6	3.82	1.63	1528.5	22.6
99.0	21.16	36.30	25.46	256.9	3.89	1.70	1528.4	31.0
102.0	21.06	36.30	25.49	254.4	3.97	1.78	1528.2	41.1
105.0	20.86	36.30	25.54	249.3	4.05	1.86	1527.7	54.5
108.0	20.53	36.30	25.63	240.9	4.12	1.94	1526.9	47.8
111.0	20.45	36.30	25.65	238.9	4.19	2.02	1526.7	23.5
114.0	20.43	36.30	25.66	238.5	4.26	2.11	1526.7	36.4
117.0	20.21	36.30	25.72	233.0	4.34	2.19	1526.1	43.9
120.0	20.08	36.30	25.75	229.8	4.41	2.28	1525.8	68.7
123.0	19.34	36.30	25.95	211.3	4.47	2.36	1523.9	91.0
126.0	18.50	36.29	26.15	191.6	4.53	2.44	1521.5	81.5
129.0	18.04	36.29	26.27	180.7	4.59	2.51	1520.3	50.3
130.0	18.03	36.29	26.27	180.5	4.61	2.53	1520.2	17.5



STATION 3 / TRANSECT I 9 /11/77 001 CST

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        HYDROGRAPHIC CAST DATA    STATION 1 / TRANSECT II
              9/10/77    815 CST     SAMPLE CODE BOGY

DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND   BV
                           T                 D      EN     SPD    FRQ

  0.0    29.18   34.22   21.44   636.5    0.00    0.00   1543.3    0.0
  3.0    29.18   34.22   21.44   636.9     .19     .00   1543.3    0.0
  6.0    29.18   34.22   21.44   637.0     .38     .01   1543.4    8.3
  9.0    29.17   34.22   21.45   636.8     .57     .03   1543.4   15.0
 12.0    29.17   34.23   21.45   636.2     .76     .05   1543.5    9.3
 15.0    29.18   34.23   21.45   636.6     .95     .07   1543.5   19.9
 18.0    29.18   34.26   21.47   634.6    1.14     .11   1543.6  149.4
 20.0    29.18   35.20   22.18   567.2    1.26     .13   1544.7  209.1


        HYDROGRAPHIC CAST DATA    STATION 4 / TRANSECT II
              9/10/77    955 CST     SAMPLE CODE BONF

DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND   BV
                           T                 D      EN     SPD    FRQ

  0.0    29.23   33.97   21.24   656.1    0.00    0.00   1543.1   20.4
  3.0    29.20   33.97   21.25   655.5     .20     .00   1543.1   14.4
  6.0    29.20   33.97   21.25   655.6     .39     .01   1543.2   86.7
  9.0    29.30   34.50   21.61   620.9     .58     .03   1544.0  134.5
 12.0    29.34   35.20   22.12   572.0     .76     .05   1544.9  109.2
 15.0    29.30   35.27   22.19   565.8     .93     .07   1544.9   50.0
 18.0    29.27   35.33   22.24   560.7    1.10     .10   1545.0   53.5
 21.0    29.20   35.41   22.33   552.8    1.27     .13   1545.0   64.4
 24.0    29.12   35.53   22.45   541.7    1.43     .17   1545.0   64.4
 27.0    29.05   35.61   22.53   533.9    1.60     .21   1544.9   77.7
 30.0    28.92   35.83   22.74   514.0    1.75     .26   1545.0   79.6
 31.0    28.89   35.86   22.77   511.0    1.80     .27   1544.9   63.5
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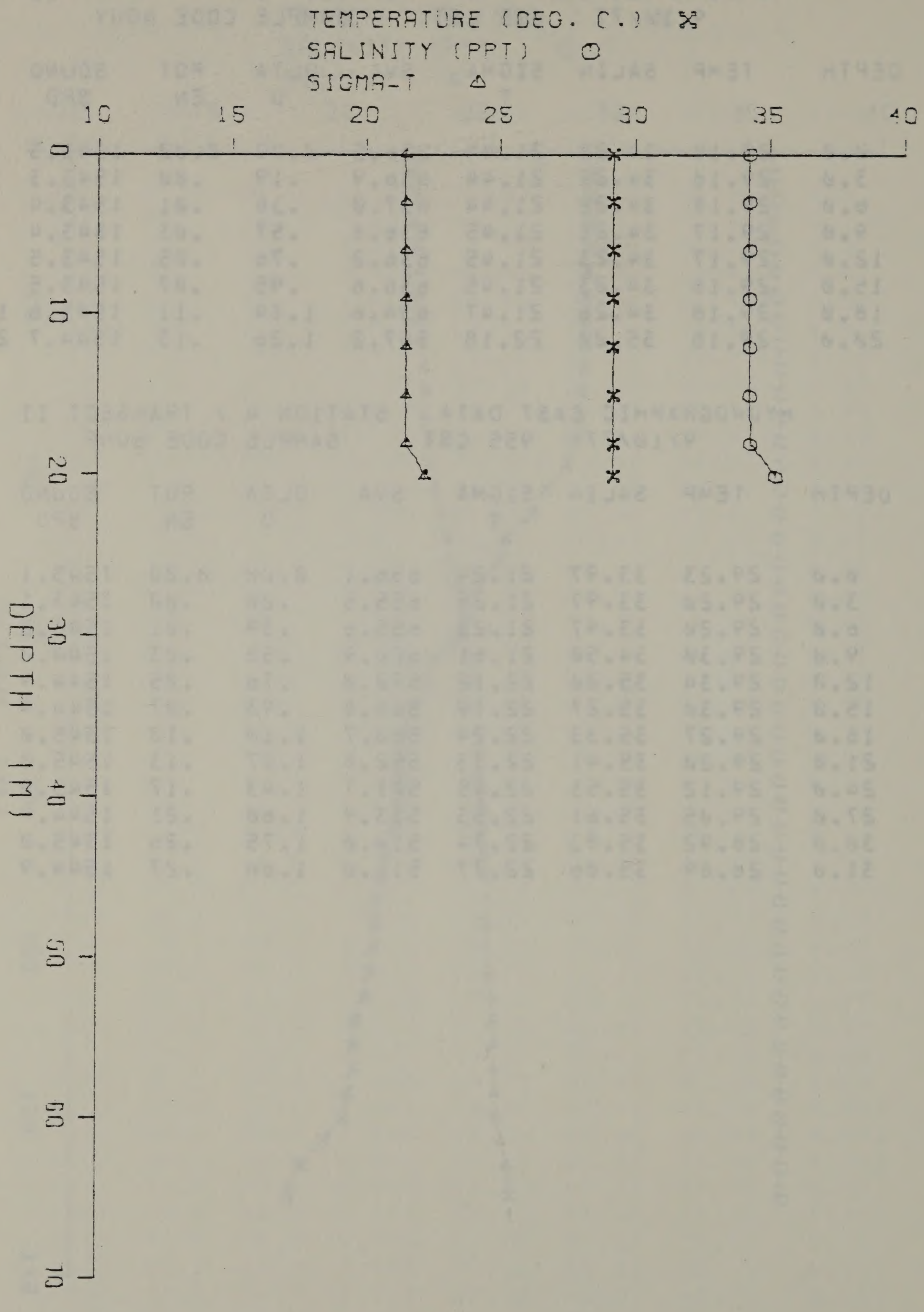
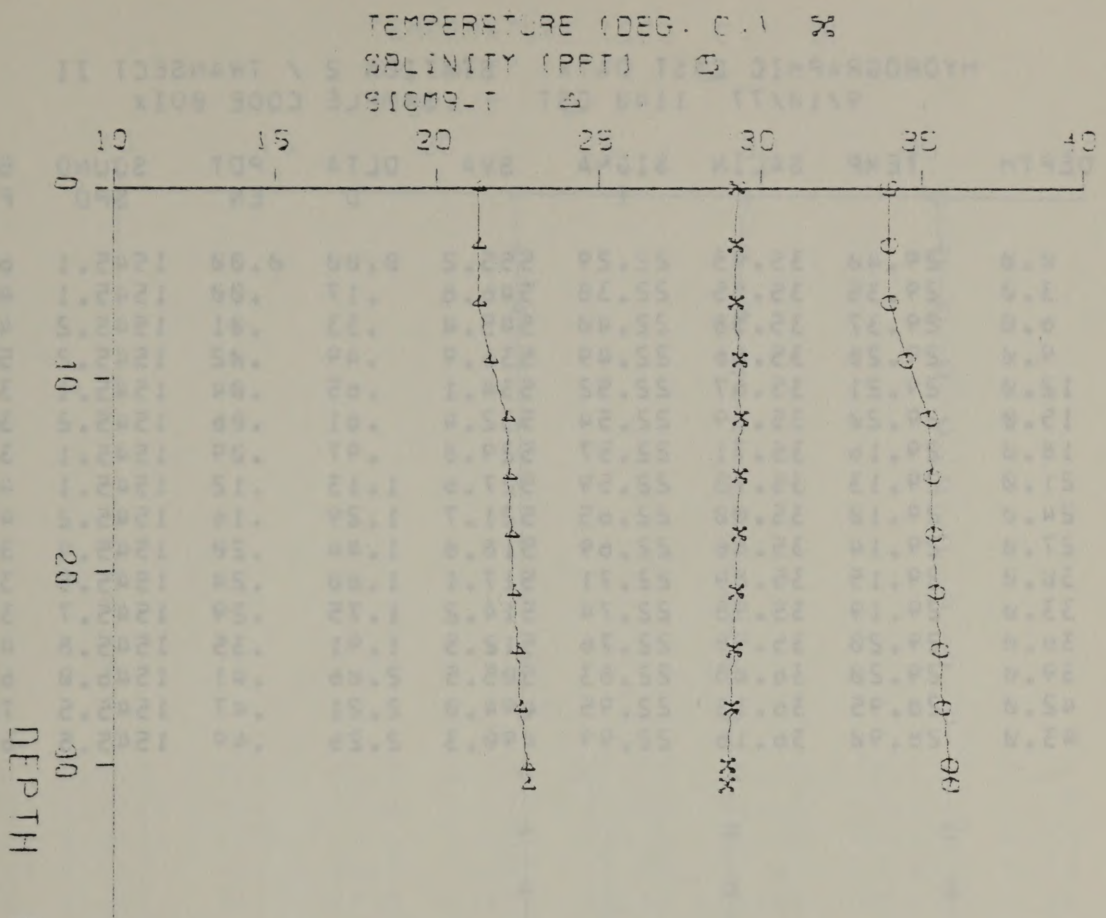


STATION 1 / TRANSECT II 9 /10/77 815 CST



STATION 4 / TRANSECT II 9/10/77 955 CST

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          HYDROGRAPHIC CAST DATA    STATION 2 / TRANSECT II
                9/10/77  1140 CST      SAMPLE CODE BOIX

DEPTH     TEMP  SALIN  SIGMA    SVA   DLTA    POT   SOUND    BV
                         T              D     EN     SPD    FRQ

  0.0    29.40  35.45  22.29  555.2   0.00   0.00  1545.1   61.6
  3.0    29.35  35.55  22.38  546.8    .17    .00  1545.1   47.2
  6.0    29.37  35.58  22.40  545.4    .33    .01  1545.2   46.8
  9.0    29.28  35.66  22.49  536.9    .49    .02  1545.2   50.1
 12.0    29.21  35.67  22.52  534.1    .65    .04  1545.1   32.0
 15.0    29.20  35.69  22.54  532.4    .81    .06  1545.2   31.1
 18.0    29.16  35.71  22.57  529.8    .97    .09  1545.1   33.3
 21.0    29.13  35.73  22.59  527.6   1.13    .12  1545.1   42.6
 24.0    29.10  35.80  22.65  521.7   1.29    .16  1545.2   44.1
 27.0    29.14  35.86  22.69  518.8   1.44    .20  1545.4   32.4
 30.0    29.15  35.89  22.71  517.1   1.60    .24  1545.5   32.4
 33.0    29.19  35.95  22.74  514.2   1.75    .29  1545.7   32.4
 36.0    29.20  35.98  22.76  512.5   1.91    .35  1545.8   44.1
 39.0    29.20  36.08  22.83  505.5   2.06    .41  1546.0   63.7
 42.0    28.95  36.13  22.95  494.0   2.21    .47  1545.5   70.3
 43.0    28.90  36.16  22.99  490.3   2.26    .49  1545.5   69.8
```
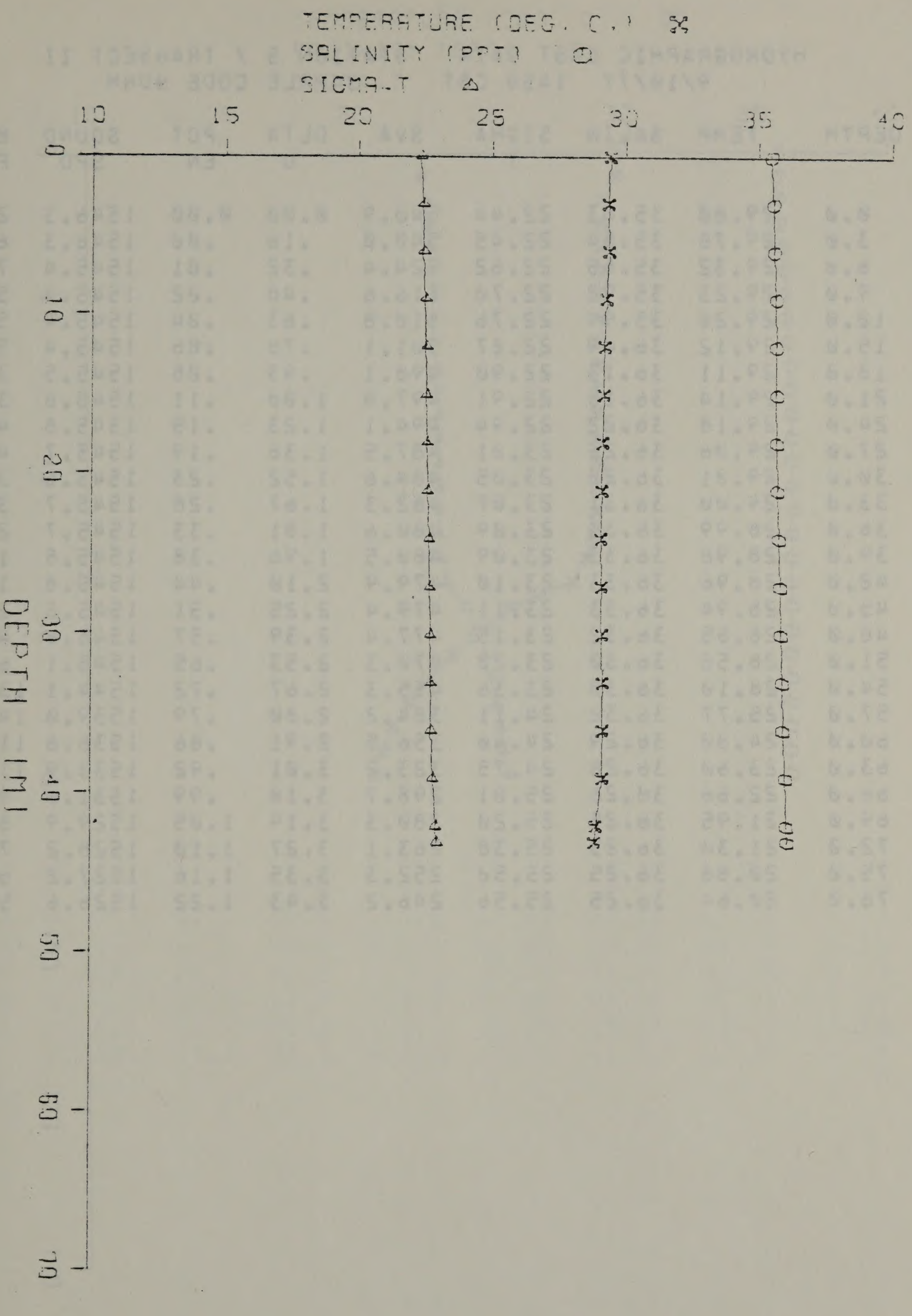
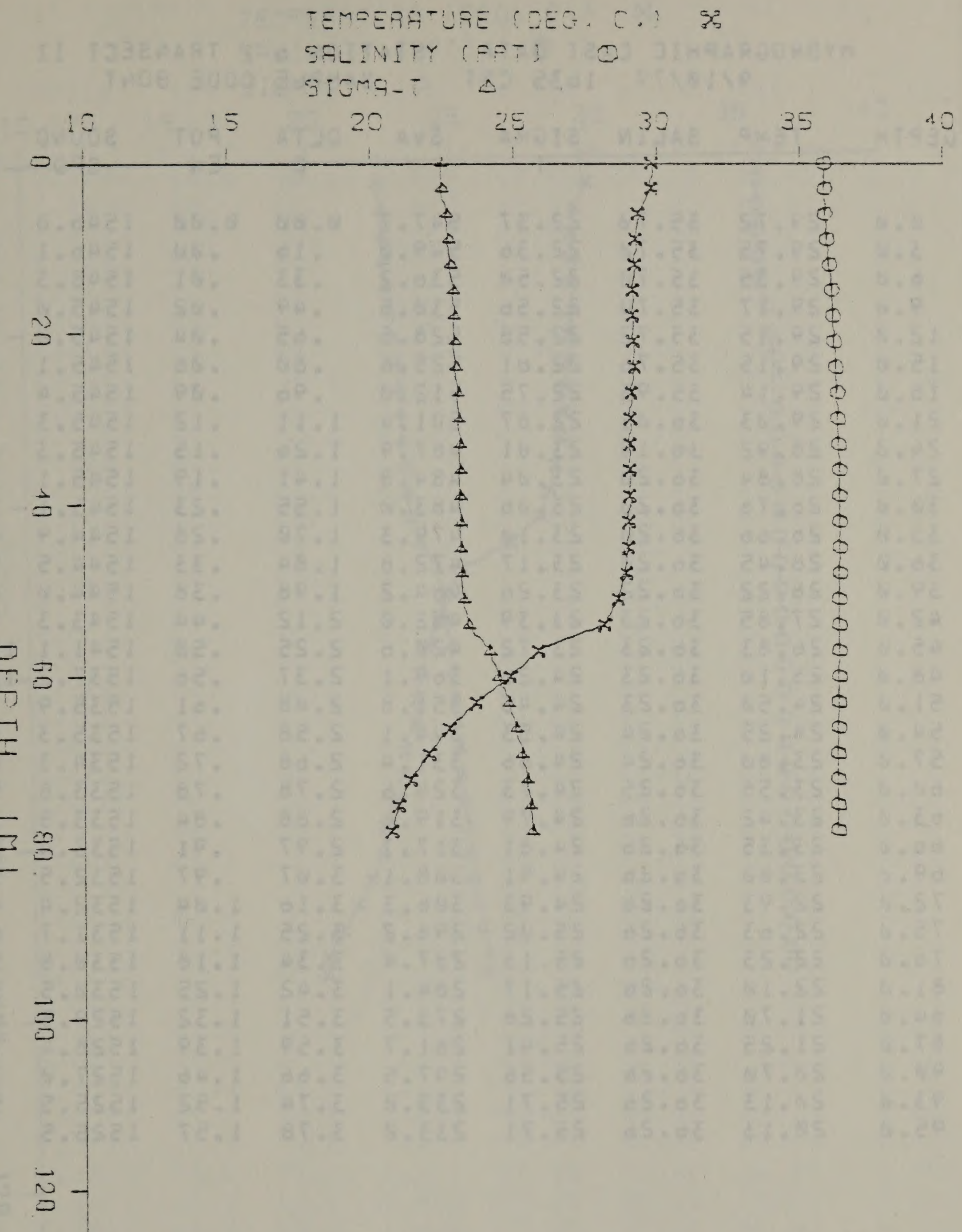



STATION 2 / TRANSECT II 9 /10/77 1140 CST

HYDROGRAPHIC CAST DATA   STATION 5 / TRANSECT II
9/10/77 1450 CST   SAMPLE CODE BONM

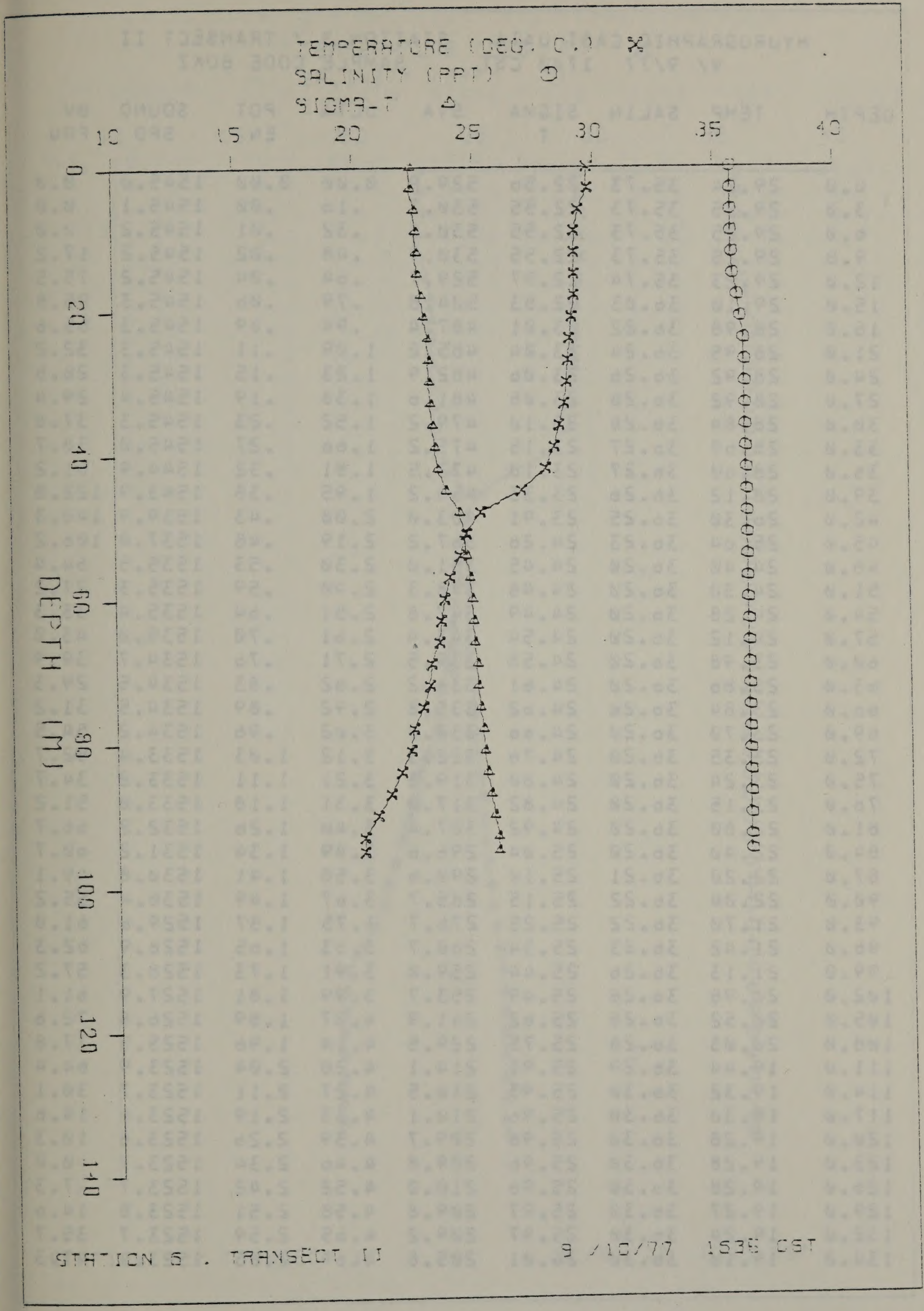
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.80	35.83	22.44	540.9	0.00	0.00	1546.3	24.3
3.0	29.78	35.84	22.45	540.0	.16	.00	1546.3	60.6
6.0	29.32	35.85	22.62	524.4	.32	.01	1545.4	71.4
9.0	29.23	35.92	22.70	516.6	.48	.02	1545.4	54.8
12.0	29.20	35.99	22.76	510.8	.63	.04	1545.4	58.3
15.0	29.12	36.09	22.87	501.1	.78	.06	1545.4	52.9
18.0	29.11	36.13	22.90	498.1	.93	.08	1545.5	30.8
21.0	29.14	36.16	22.91	497.0	1.08	.11	1545.6	30.2
24.0	29.18	36.22	22.94	494.1	1.23	.15	1545.8	45.9
27.0	29.06	36.26	23.01	487.5	1.38	.19	1545.7	46.0
30.0	29.01	36.28	23.05	484.6	1.52	.23	1545.6	34.5
33.0	29.00	36.31	23.07	482.3	1.67	.28	1545.7	30.2
36.0	28.99	36.33	23.09	480.6	1.81	.33	1545.7	21.2
39.0	28.98	36.33	23.09	480.5	1.96	.38	1545.8	14.4
42.0	28.96	36.33	23.10	479.9	2.10	.44	1545.8	16.6
45.0	28.94	36.33	23.11	479.4	2.25	.51	1545.8	24.6
48.0	28.85	36.32	23.13	477.4	2.39	.57	1545.6	44.9
51.0	28.58	36.30	23.20	470.3	2.53	.65	1545.1	69.5
54.0	28.10	36.30	23.36	455.3	2.67	.72	1544.1	136.6
57.0	25.77	36.30	24.11	384.2	2.80	.79	1539.0	146.2
60.0	24.80	36.29	24.40	356.5	2.91	.86	1536.8	115.0
63.0	23.60	36.28	24.75	323.2	3.01	.92	1533.9	112.0
66.0	22.66	36.26	25.01	298.7	3.10	.99	1531.6	96.5
69.0	21.95	36.25	25.20	280.3	3.19	1.05	1529.9	87.9
72.0	21.30	36.25	25.38	263.1	3.27	1.10	1528.2	78.1
75.0	20.88	36.25	25.50	252.3	3.35	1.16	1527.2	60.9
78.0	20.64	36.25	25.56	246.2	3.43	1.22	1526.6	51.8



STATION 5 / TRANSECT II   9 /10/77 1450 CST

HYDROGRAPHIC CAST DATA   STATION 6 , TRANSECT II
9/10/77 1635 CST   SAMPLE CODE 80NT

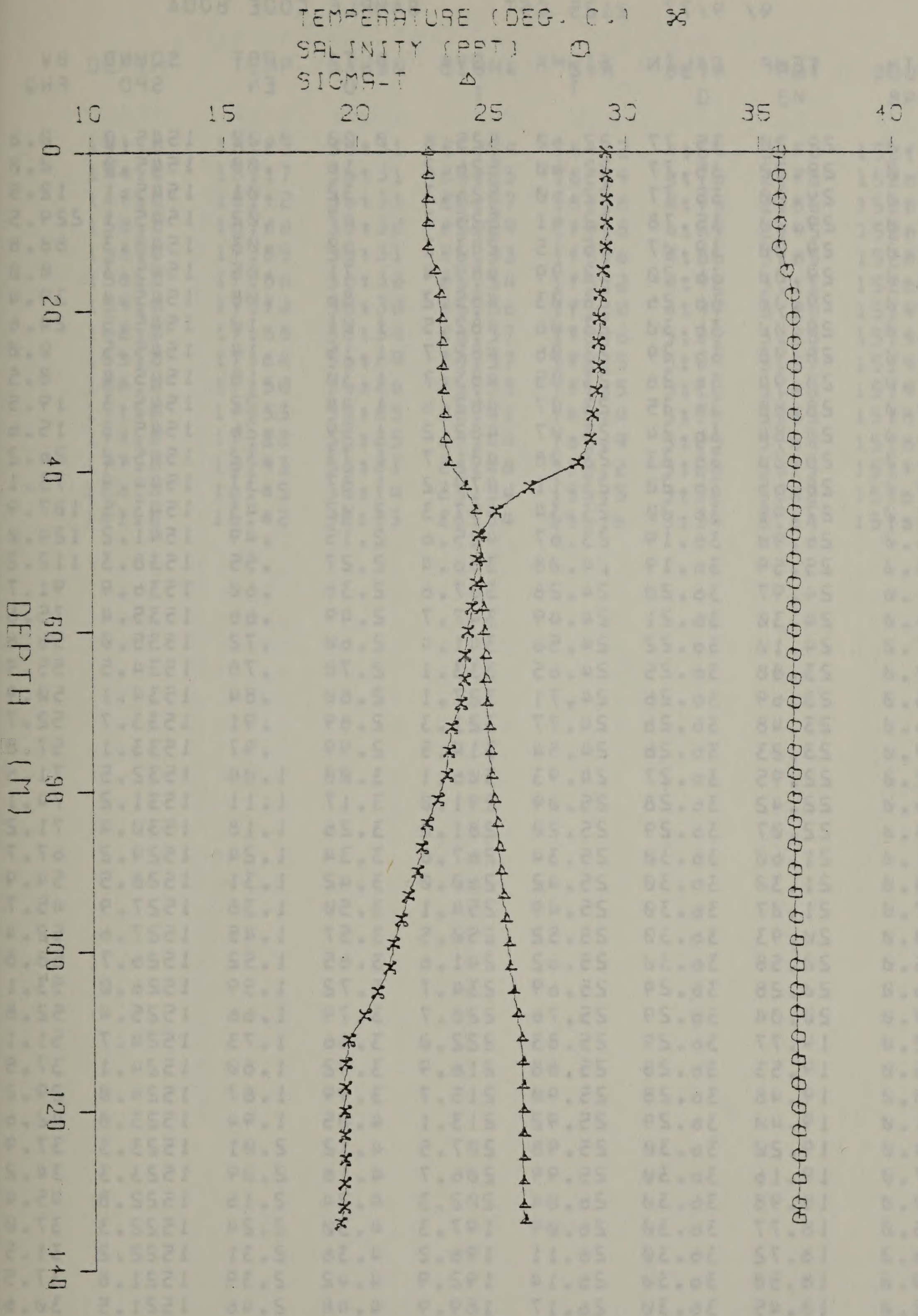
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRG
0.0	29.72	35.70	22.37	547.7	0.00	0.00	1546.0	0.0
3.0	29.75	35.70	22.36	549.0	.16	.00	1546.1	50.9
6.0	29.35	35.70	22.50	536.2	.33	.01	1545.3	63.7
9.0	29.17	35.70	22.56	530.5	.49	.02	1545.0	41.3
12.0	29.15	35.72	22.58	528.5	.65	.04	1545.0	32.7
15.0	29.15	35.76	22.61	525.8	.80	.06	1545.1	60.3
18.0	29.14	35.95	22.75	512.0	.96	.09	1545.4	73.0
21.0	29.03	36.05	22.87	501.4	1.11	.12	1545.3	72.4
24.0	28.92	36.19	23.01	487.9	1.26	.15	1545.3	60.3
27.0	28.84	36.20	23.04	484.8	1.41	.19	1545.1	33.5
30.0	28.78	36.20	23.06	483.0	1.55	.23	1545.1	35.2
33.0	28.66	36.20	23.10	479.3	1.70	.28	1544.9	47.6
36.0	28.45	36.20	23.17	472.8	1.84	.33	1544.5	57.6
39.0	28.22	36.22	23.26	464.2	1.98	.38	1544.0	67.4
42.0	27.85	36.23	23.39	452.0	2.12	.44	1543.3	97.3
45.0	26.83	36.23	23.72	420.6	2.25	.50	1541.1	134.0
48.0	25.10	36.23	24.26	369.1	2.37	.56	1537.2	122.1
51.0	24.50	36.23	24.45	351.8	2.48	.61	1535.9	73.9
54.0	24.25	36.24	24.53	344.1	2.58	.67	1535.3	66.8
57.0	23.80	36.24	24.66	331.4	2.68	.72	1534.3	65.2
60.0	23.58	36.25	24.73	324.6	2.78	.78	1533.8	51.2
63.0	23.42	36.26	24.79	319.6	2.88	.84	1533.5	39.3
66.0	23.35	36.26	24.81	317.7	2.97	.91	1533.4	50.2
69.0	23.00	36.26	24.91	308.1	3.07	.97	1532.5	50.1
72.0	22.93	36.26	24.93	306.3	3.16	1.04	1532.4	46.9
75.0	22.63	36.26	25.02	298.2	3.25	1.11	1531.7	64.2
78.0	22.23	36.26	25.13	287.4	3.34	1.18	1530.8	55.7
81.0	22.10	36.26	25.17	284.1	3.42	1.25	1530.5	55.4
84.0	21.70	36.26	25.28	273.5	3.51	1.32	1529.5	69.9
87.0	21.25	36.26	25.41	261.7	3.59	1.39	1528.4	75.3
90.0	20.70	36.26	25.56	247.5	3.66	1.46	1527.0	79.0
93.0	20.13	36.26	25.71	233.0	3.74	1.52	1525.5	56.1
95.0	20.13	36.26	25.71	233.0	3.78	1.57	1525.5	0.0



STATION 6 . TRANSECT II 9 /10/77 1535 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II
9/ 9/77 1740 CST SAMPLE CODE BOKZ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.24	35.73	22.56	529.9	0.00	0.00	1545.0	0.0
3.0	29.25	35.73	22.55	530.7	.16	.00	1545.1	0.0
6.0	29.25	35.73	22.55	530.8	.32	.01	1545.2	0.0
9.0	29.25	35.73	22.55	530.9	.48	.02	1545.2	17.2
12.0	29.23	35.74	22.57	529.7	.64	.04	1545.2	75.5
15.0	29.10	36.03	22.83	504.8	.79	.06	1545.3	95.8
18.0	28.98	36.22	23.01	487.4	.94	.09	1545.3	65.6
21.0	28.95	36.24	23.04	485.2	1.09	.11	1545.3	32.2
24.0	28.92	36.26	23.06	482.9	1.23	.15	1545.3	28.8
27.0	28.92	36.28	23.08	481.6	1.38	.19	1545.4	29.4
30.0	28.84	36.28	23.10	479.2	1.52	.23	1545.3	37.8
33.0	28.69	36.27	23.15	475.2	1.66	.27	1545.0	38.7
36.0	28.60	36.27	23.18	472.5	1.81	.32	1544.9	61.2
39.0	28.12	36.26	23.33	458.2	1.95	.38	1543.9	122.8
42.0	26.30	36.25	23.91	403.0	2.08	.43	1539.9	140.3
45.0	25.04	36.23	24.26	367.2	2.19	.48	1537.0	106.2
48.0	24.40	36.20	24.45	351.0	2.30	.53	1535.5	64.4
51.0	24.30	36.20	24.48	348.3	2.40	.59	1535.3	27.2
54.0	24.28	36.20	24.49	347.8	2.51	.64	1535.4	33.3
57.0	24.12	36.20	24.54	343.4	2.61	.70	1535.0	43.0
60.0	23.98	36.20	24.58	339.5	2.71	.76	1534.7	39.9
63.0	23.86	36.20	24.61	336.2	2.82	.83	1534.5	29.3
66.0	23.84	36.20	24.62	335.8	2.92	.89	1534.5	31.2
69.0	23.70	36.20	24.66	332.0	3.02	.96	1534.2	54.5
72.0	23.35	36.20	24.76	322.3	3.12	1.03	1533.4	52.7
75.0	23.24	36.20	24.80	319.3	3.21	1.11	1533.2	34.7
78.0	23.15	36.20	24.82	317.0	3.31	1.18	1533.0	51.2
81.0	22.80	36.20	24.92	307.4	3.40	1.26	1532.2	66.7
84.0	22.40	36.20	25.04	296.6	3.49	1.34	1531.2	60.7
87.0	22.20	36.21	25.10	290.6	3.58	1.41	1530.8	49.1
90.0	22.04	36.22	25.15	285.7	3.67	1.49	1530.4	55.2
93.0	21.70	36.22	25.25	276.7	3.75	1.57	1529.6	61.0
96.0	21.42	36.23	25.34	268.7	3.83	1.65	1528.9	62.3
99.0	21.13	36.26	25.44	259.0	3.91	1.73	1528.3	57.2
102.0	20.98	36.28	25.49	253.7	3.99	1.81	1527.9	61.1
105.0	20.52	36.28	25.62	241.9	4.07	1.89	1526.8	72.6
108.0	20.03	36.28	25.75	229.5	4.14	1.96	1525.5	77.8
111.0	19.44	36.29	25.91	214.1	4.20	2.04	1523.9	64.4
114.0	19.32	36.30	25.95	210.5	4.27	2.11	1523.7	30.1
117.0	19.30	36.30	25.96	210.1	4.33	2.19	1523.6	14.6
120.0	19.28	36.30	25.96	209.7	4.39	2.26	1523.6	10.3
123.0	19.28	36.30	25.96	209.8	4.46	2.34	1523.7	0.0
126.0	19.28	36.30	25.96	210.0	4.52	2.42	1523.7	7.3
129.0	19.27	36.30	25.97	209.8	4.58	2.51	1523.8	14.6
132.0	19.24	36.30	25.97	209.2	4.65	2.59	1523.7	35.7
134.0	19.10	36.30	26.01	205.8	4.69	2.65	1523.4	47.3



STATION 3 / TRANSECT II 9 /9 /77 1740 CST

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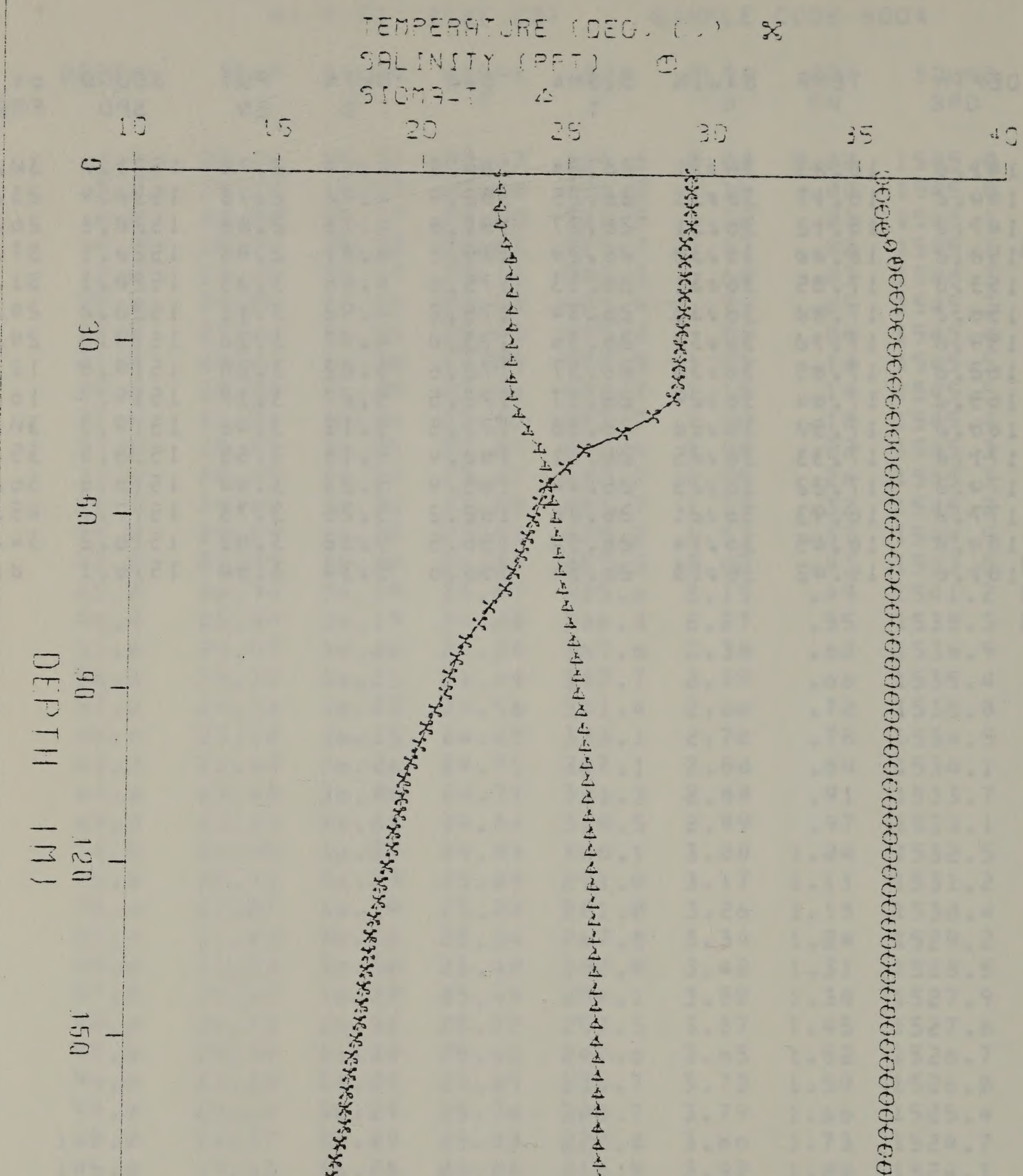
        HYDROGRAPHIC CAST DATA   STATION 7 , TRANSECT II
                9/ 9/77  2125 CST     SAMPLE CODE BOOA

DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND   BV
                           T                D      EN      SPD   FRQ

  0.0    29.20   35.77   22.60   525.8    0.00    0.00   1545.0    0.0
  3.0    29.20   35.77   22.60   526.2     .16     .00   1545.0    0.0
  6.0    29.20   35.77   22.60   526.3     .32     .01   1545.1   12.5
  9.0    29.20   35.78   22.61   525.7     .47     .02   1545.1  229.5
 12.0    29.00   39.07   25.15   283.3     .60     .03   1548.3   88.8
 15.0    29.00   36.20   22.99   489.4     .71     .05   1545.3    0.0
 18.0    29.00   36.26   23.03   485.2     .86     .08   1545.4   39.4
 21.0    29.00   36.30   23.06   482.5    1.01     .10   1545.5   24.6
 24.0    28.98   36.29   23.06   482.7    1.15     .14   1545.5    0.0
 27.0    28.94   36.26   23.05   483.7    1.30     .18   1545.4    8.5
 30.0    28.88   36.25   23.07   482.6    1.44     .22   1545.3   19.5
 33.0    28.84   36.24   23.07   482.2    1.59     .26   1545.3   15.6
 36.0    28.80   36.23   23.08   481.7    1.73     .32   1545.2   26.2
 39.0    28.65   36.20   23.11   479.2    1.87     .37   1544.9   73.1
 42.0    27.95   36.20   23.34   457.3    2.02     .43   1543.5  107.9
 45.0    26.90   36.19   23.67   425.6    2.15     .49   1541.2  124.0
 48.0    25.59   36.19   24.08   386.4    2.27     .55   1538.3  112.2
 51.0    24.97   36.20   24.28   367.6    2.38     .60   1536.9   91.7
 54.0    24.30   36.21   24.49   347.7    2.49     .66   1535.4   75.6
 57.0    24.10   36.22   24.56   341.4    2.60     .72   1535.0   56.6
 60.0    23.88   36.25   24.65   333.1    2.70     .78   1534.5   55.9
 63.0    23.69   36.26   24.71   327.1    2.80     .84   1534.1   50.9
 66.0    23.48   36.26   24.77   321.3    2.89     .91   1533.7   52.7
 69.0    23.23   36.26   24.84   314.5    2.99     .97   1533.1   57.8
 72.0    22.95   36.27   24.93   306.1    3.08    1.04   1532.5   71.6
 75.0    22.42   36.28   25.09   291.0    3.17    1.11   1531.2   74.1
 78.0    22.07   36.29   25.20   281.0    3.26    1.18   1530.4   71.2
 81.0    21.60   36.30   25.34   267.8    3.34    1.24   1529.2   67.7
 84.0    21.30   36.30   25.42   260.0    3.42    1.31   1528.5   54.9
 87.0    21.07   36.30   25.49   254.1    3.50    1.38   1527.9   45.7
 90.0    20.93   36.30   25.52   250.5    3.57    1.45   1527.6   52.4
 93.0    20.58   36.30   25.62   241.6    3.65    1.52   1526.7   58.8
 96.0    20.28   36.29   25.69   234.7    3.72    1.59   1526.0   53.1
 99.0    20.04   36.29   25.76   228.7    3.79    1.66   1525.4   52.8
102.0    19.77   36.29   25.83   222.0    3.86    1.73   1524.7   51.1
105.0    19.53   36.28   25.88   216.9    3.92    1.80   1524.1   37.5
108.0    19.48   36.28   25.90   215.7    3.99    1.87   1524.0   29.2
111.0    19.40   36.29   25.92   213.1    4.05    1.94   1523.8   42.6
114.0    19.20   36.30   25.98   207.5    4.12    2.01   1523.3   37.9
117.0    19.16   36.30   25.99   206.7    4.18    2.09   1523.3   34.2
120.0    18.98   36.30   26.04   202.3    4.24    2.16   1522.8   45.4
123.0    18.77   36.30   26.09   197.3    4.30    2.24   1522.3   37.0
126.0    18.72   36.30   26.11   196.2    4.36    2.31   1522.2   31.5
129.0    18.58   36.30   26.14   192.9    4.42    2.39   1521.8   37.5
132.0    18.45   36.30   26.17   189.9    4.48    2.46   1521.5   30.6
135.0    18.40   36.30   26.19   188.8    4.53    2.54   1521.4   26.0
138.0    18.32   36.30   26.21   187.0    4.59    2.62   1521.2   32.2
```

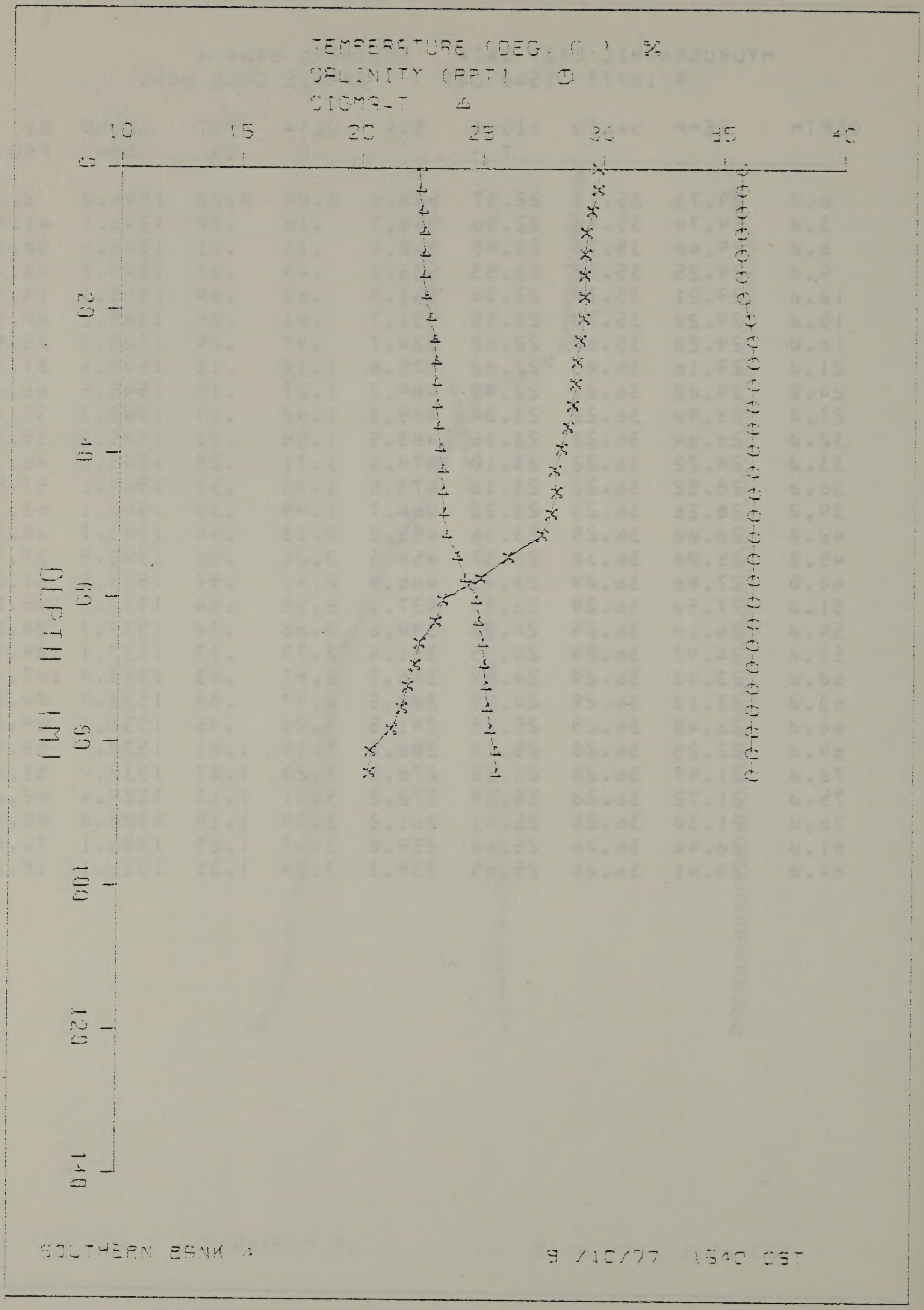
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
141.0	18.23	36.31	26.24	184.2	4.64	2.70	1521.0	30.5
144.0	18.17	36.31	26.25	182.9	4.70	2.78	1520.9	23.8
147.0	18.12	36.31	26.27	181.8	4.75	2.86	1520.8	26.7
150.0	18.00	36.30	26.29	179.8	4.81	2.95	1520.5	37.1
153.0	17.85	36.31	26.33	175.6	4.86	3.03	1520.1	31.9
156.0	17.80	36.30	26.34	175.2	4.92	3.11	1520.0	24.6
159.0	17.70	36.30	26.36	173.0	4.97	3.20	1519.8	24.7
162.0	17.68	36.30	26.37	172.6	5.02	3.28	1519.8	12.1
165.0	17.64	36.29	26.37	172.5	5.07	3.37	1519.7	16.6
168.0	17.50	36.26	26.38	171.5	5.12	3.46	1519.3	30.4
171.0	17.33	36.25	26.41	168.4	5.18	3.55	1518.8	35.2
174.0	17.22	36.25	26.44	165.9	5.23	3.64	1518.6	36.8
177.0	16.93	36.21	26.48	162.2	5.28	3.73	1517.7	45.1
180.0	16.45	36.14	26.54	156.5	5.32	3.82	1516.2	34.6
181.0	16.42	36.13	26.54	156.6	5.34	3.84	1516.1	0.0



STATION 7 , TRANSECT II 9 /9 /77 2125 CST

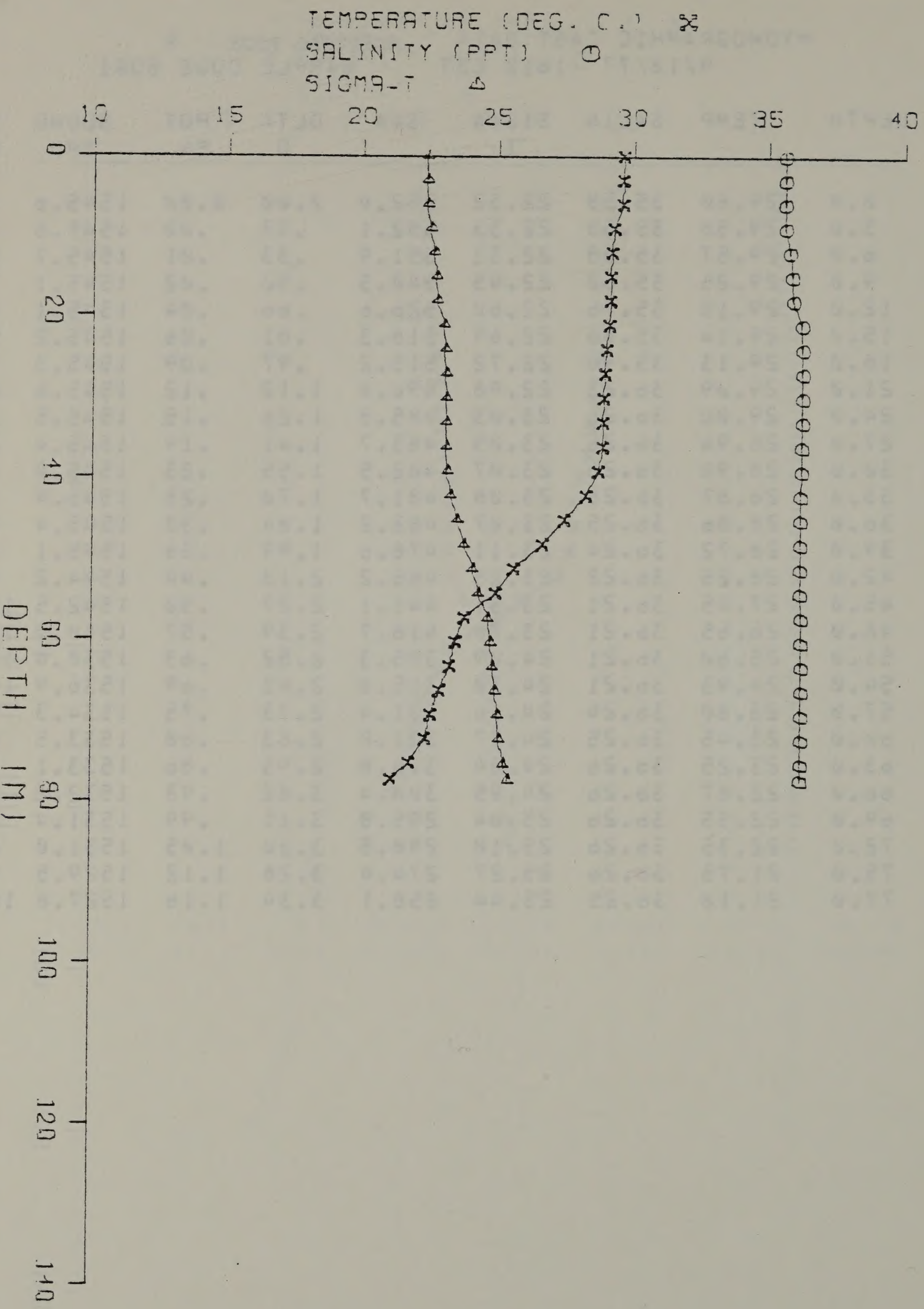
HYDROGRAPHIC CAST DATA   SOUTHERN BANK 4
9/10/77 1540 CST   SAMPLE CODE BOGQ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.73	35.70	22.37	548.0	0.00	0.00	1546.0	0.0
3.0	29.74	35.70	22.36	548.7	.16	.00	1546.1	41.9
6.0	29.48	35.70	22.45	540.4	.33	.01	1545.6	58.6
9.0	29.25	35.70	22.53	533.1	.49	.02	1545.2	43.4
12.0	29.21	35.70	22.54	531.9	.65	.04	1545.1	18.7
15.0	29.20	35.70	22.55	531.7	.81	.06	1545.2	40.3
18.0	29.20	35.80	22.62	524.7	.97	.09	1545.3	75.5
21.0	29.16	36.05	22.82	505.6	1.12	.12	1545.6	87.2
24.0	29.02	36.21	22.99	489.7	1.27	.15	1545.5	66.6
27.0	28.90	36.22	23.04	485.3	1.42	.19	1545.3	37.4
30.0	28.84	36.22	23.06	483.5	1.56	.23	1545.2	35.2
33.0	28.72	36.22	23.10	479.8	1.71	.28	1545.0	46.9
36.0	28.52	36.22	23.16	473.5	1.85	.33	1544.6	57.5
39.0	28.26	36.23	23.26	464.7	1.99	.38	1544.1	63.3
42.0	28.00	36.25	23.36	455.2	2.13	.44	1543.7	48.1
45.0	28.08	36.30	23.37	454.3	2.26	.50	1543.9	37.9
48.0	27.88	36.29	23.43	448.9	2.40	.57	1543.5	61.3
51.0	27.50	36.29	23.55	437.1	2.53	.64	1542.8	108.5
54.0	26.10	36.29	24.00	394.6	2.66	.70	1539.7	128.2
57.0	24.97	36.29	24.35	361.4	2.77	.77	1537.1	129.9
60.0	23.40	36.29	24.82	316.7	2.87	.83	1533.4	107.1
63.0	23.10	36.29	24.90	308.5	2.97	.89	1532.7	74.2
66.0	22.45	36.28	25.08	291.5	3.06	.95	1531.1	69.8
69.0	22.25	36.28	25.14	286.2	3.15	1.01	1530.7	52.9
72.0	21.97	36.28	25.22	278.8	3.23	1.07	1530.0	55.4
75.0	21.72	36.28	25.29	272.2	3.31	1.13	1529.4	62.0
78.0	21.30	36.28	25.41	261.2	3.39	1.19	1528.4	85.0
81.0	20.44	36.28	25.64	239.0	3.47	1.25	1526.1	70.6
84.0	20.41	36.28	25.65	238.3	3.54	1.31	1526.1	18.2


TEMPERATURE (DEG. C.) X
SALINITY (PPT) ⊕
SIGMA-T 4
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
DEPTH (M)
SOUTHERN BANK 4
9 /10/77 1540 CST

HYDROGRAPHIC CAST DATA HOSPITAL ROCK 4
9/10/77 1610 CST SAMPLE CODE BOGI

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.60	35.58	22.32	552.4	0.00	0.00	1545.6	16.8
3.0	29.58	35.58	22.33	552.1	.17	.00	1545.6	14.5
6.0	29.57	35.58	22.33	551.9	.33	.01	1545.7	51.2
9.0	29.25	35.60	22.45	540.3	.50	.02	1545.1	74.3
12.0	29.18	35.76	22.60	526.6	.66	.04	1545.1	69.3
15.0	29.14	35.86	22.69	518.3	.81	.06	1545.2	50.2
18.0	29.13	35.90	22.72	515.2	.97	.09	1545.3	78.0
21.0	29.09	36.23	22.98	490.4	1.12	.12	1545.6	80.5
24.0	29.00	36.26	23.03	485.5	1.26	.15	1545.5	38.8
27.0	28.94	36.26	23.05	483.7	1.41	.19	1545.4	26.3
30.0	28.90	36.26	23.07	482.5	1.55	.23	1545.4	22.0
33.0	28.87	36.26	23.08	481.7	1.70	.28	1545.4	11.0
36.0	28.86	36.25	23.07	482.2	1.84	.33	1545.4	26.9
39.0	28.72	36.24	23.11	478.6	1.99	.38	1545.1	61.0
42.0	28.25	36.22	23.25	465.2	2.13	.44	1544.2	90.3
45.0	27.45	36.21	23.51	441.1	2.27	.50	1542.5	102.7
48.0	26.65	36.21	23.76	416.7	2.39	.57	1540.7	110.0
51.0	25.60	36.21	24.09	385.3	2.52	.63	1538.4	105.1
54.0	24.93	36.21	24.30	365.8	2.63	.69	1536.9	108.2
57.0	23.80	36.24	24.66	331.4	2.73	.75	1534.3	98.7
60.0	23.45	36.25	24.77	321.0	2.83	.80	1533.5	60.3
63.0	23.25	36.26	24.84	314.8	2.93	.86	1533.1	60.3
66.0	22.87	36.26	24.95	304.4	3.02	.93	1532.2	64.5
69.0	22.55	36.26	25.04	295.8	3.11	.99	1531.4	55.4
72.0	22.35	36.26	25.10	290.5	3.20	1.05	1531.0	68.3
75.0	21.75	36.26	25.27	274.4	3.28	1.12	1529.5	93.9
77.0	21.10	36.25	25.44	258.1	3.34	1.16	1527.8	103.2



Hospital Rock 4

9 /10/77 1910 CST

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT III

9/ 8/77 1120 CST SAMPLE CODE 8OTY

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	30.00	35.15	21.86	596.3	0.00	0.00	1546.0	19.9
3.0	29.95	35.14	21.87	595.8	.18	.00	1545.9	33.6
6.0	29.73	35.10	21.92	591.6	.36	.01	1545.5	42.9
9.0	29.60	35.10	21.96	587.5	.53	.02	1545.3	32.7
12.0	29.60	35.11	21.97	586.9	.71	.04	1545.3	12.5
13.0	29.60	35.11	21.97	586.9	.77	.05	1545.3	0.0

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT III

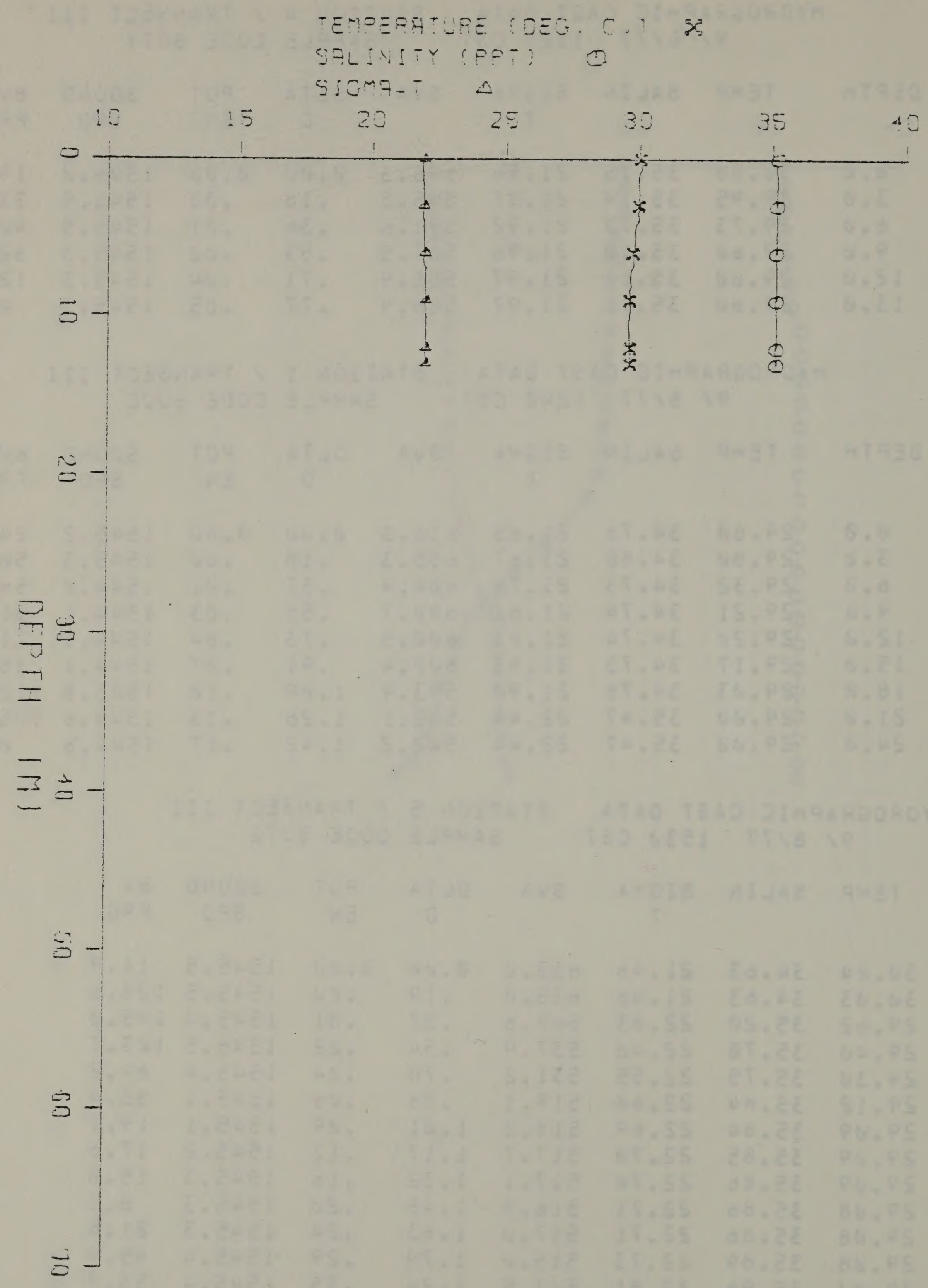
9/ 8/77 1240 CST SAMPLE CODE 8OOC

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.80	34.78	21.65	616.3	0.00	0.00	1545.2	24.9
3.0	29.80	34.80	21.67	615.3	.18	.00	1545.3	50.9
6.0	29.32	34.73	21.78	604.9	.37	.01	1544.2	56.5
9.0	29.21	34.74	21.82	600.7	.55	.03	1544.1	31.5
12.0	29.20	34.74	21.83	600.5	.73	.04	1544.1	11.1
15.0	29.17	34.73	21.83	600.4	.91	.07	1544.1	38.6
18.0	29.03	34.76	21.90	593.9	1.09	.10	1543.8	112.5
21.0	29.00	35.47	22.44	542.1	1.26	.13	1544.6	105.9
24.0	29.00	35.47	22.44	542.2	1.42	.17	1544.6	0.0

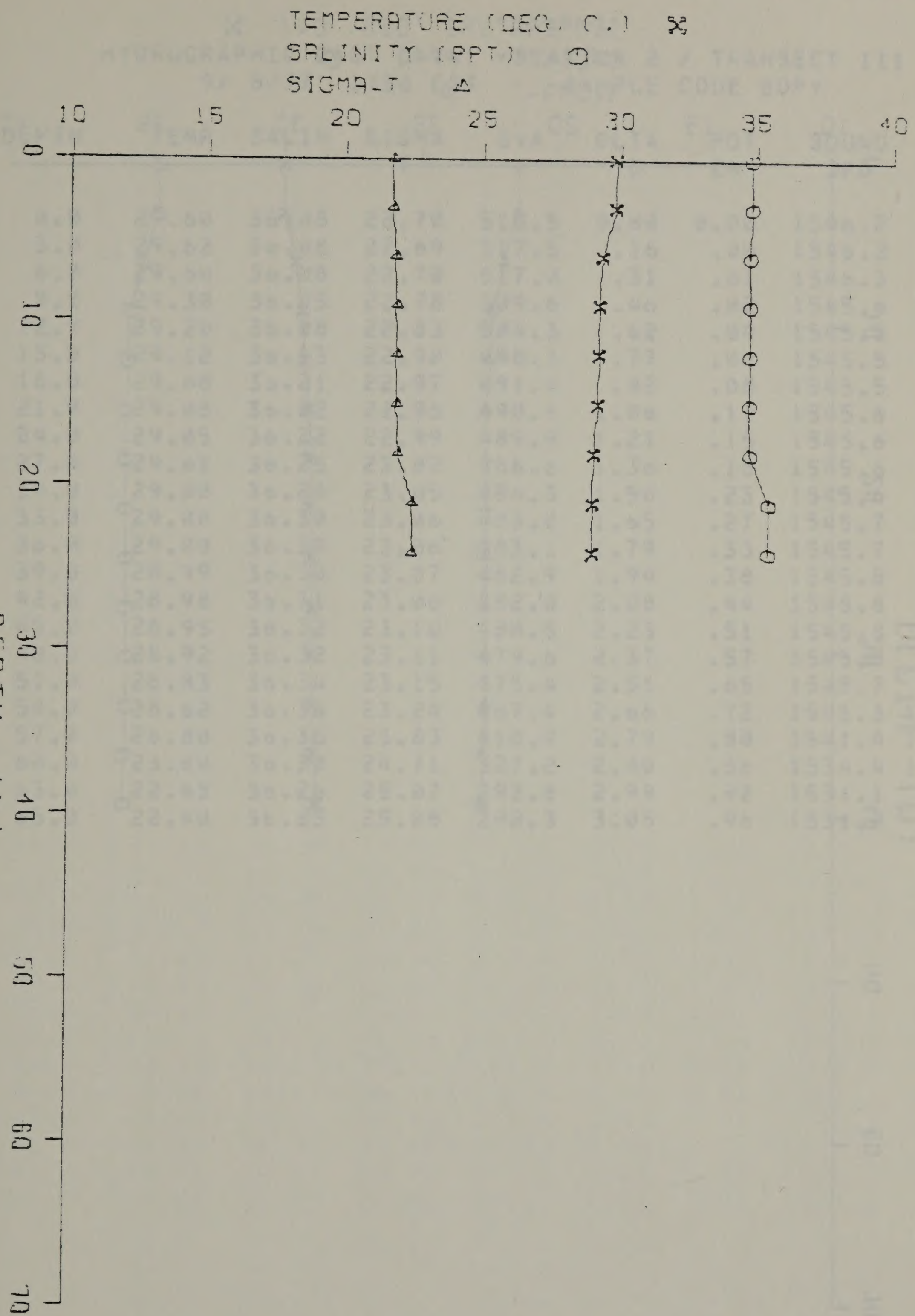
HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT III

9/ 8/77 1530 CST SAMPLE CODE 8OTZ

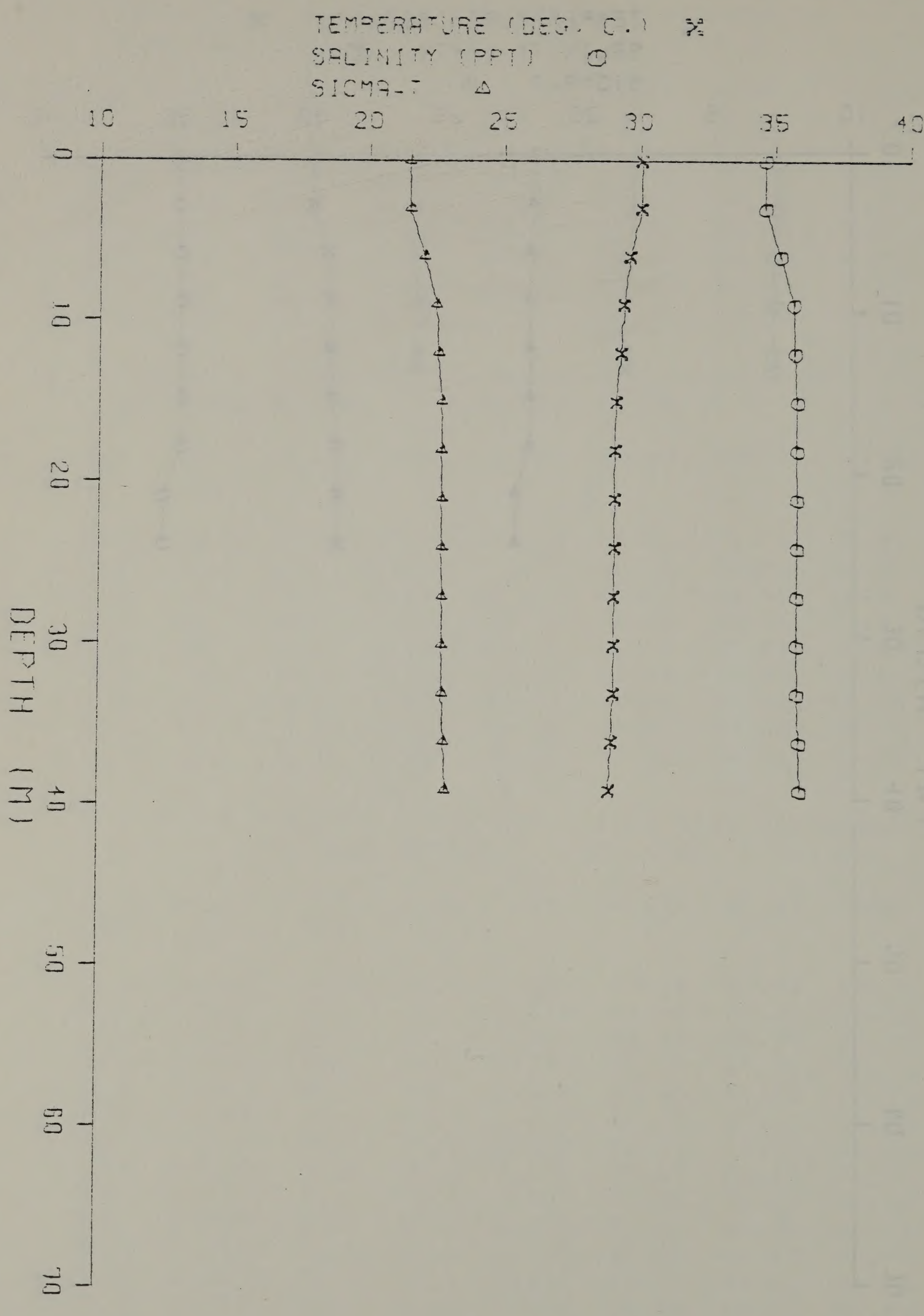
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	30.04	34.63	21.46	635.0	0.00	0.00	1545.5	11.9
3.0	30.03	34.63	21.46	635.0	.19	.00	1545.5	108.6
6.0	29.62	35.20	22.03	580.8	.37	.01	1545.4	145.0
9.0	29.40	35.70	22.48	537.9	.54	.02	1545.5	103.7
12.0	29.30	35.75	22.55	531.2	.70	.04	1545.4	64.2
15.0	29.12	35.84	22.68	519.1	.86	.06	1545.1	53.4
18.0	29.09	35.84	22.69	518.3	1.01	.09	1545.1	19.1
21.0	29.09	35.85	22.70	517.7	1.17	.12	1545.2	17.6
24.0	29.09	35.86	22.70	517.1	1.32	.16	1545.3	15.0
27.0	29.08	35.86	22.71	516.9	1.48	.20	1545.3	8.3
30.0	29.08	35.86	22.71	517.0	1.63	.24	1545.3	21.6
33.0	29.08	35.89	22.73	515.0	1.79	.29	1545.4	45.9
36.0	29.00	35.96	22.81	507.5	1.94	.35	1545.4	53.9
39.0	28.93	36.01	22.87	501.8	2.09	.40	1545.3	50.2



STATION 4 / TRANSECT III 9 /8 /77 1120 CST



STATION 1 / TRANSECT III 9 /8 /77 1240 CST

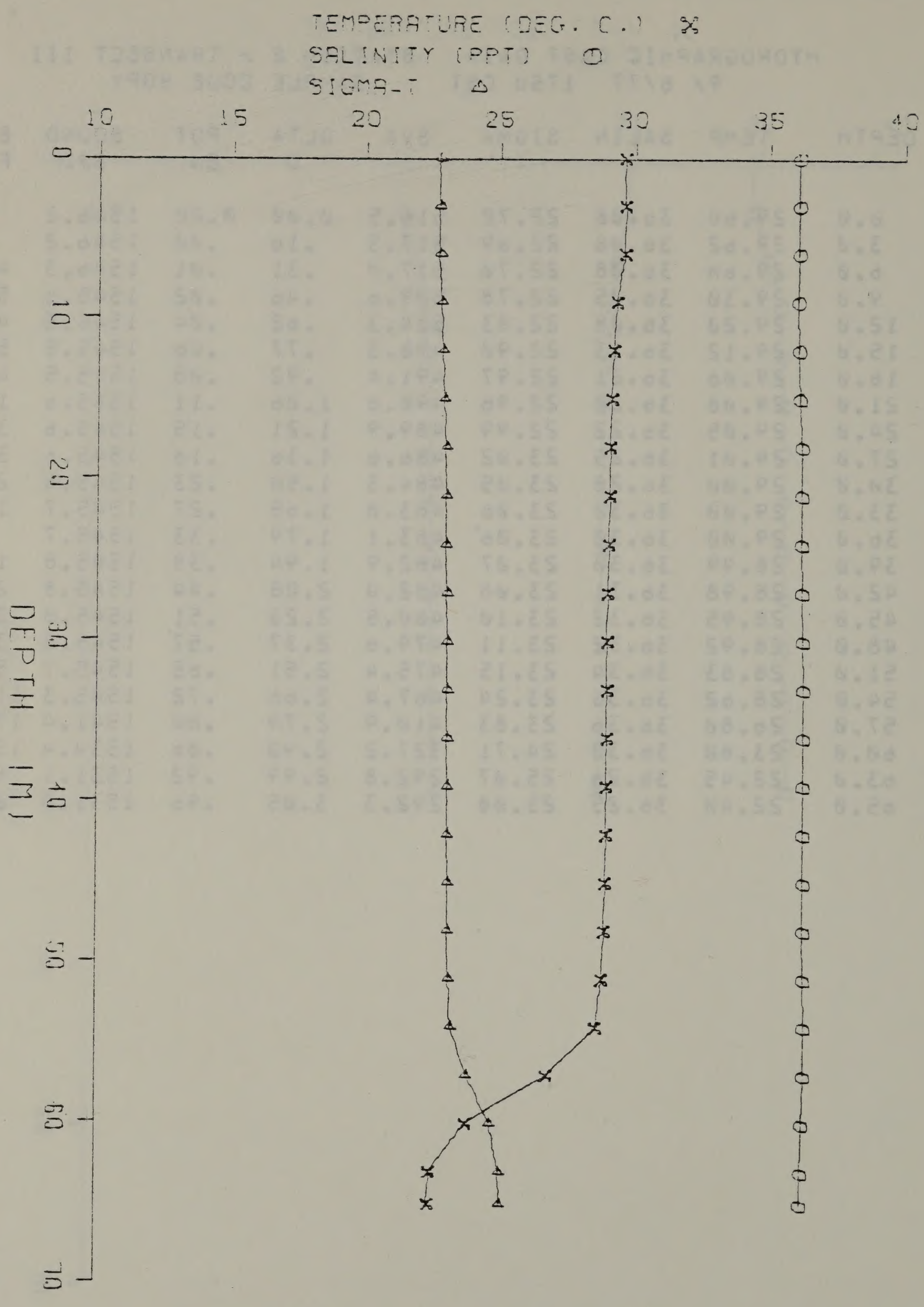


STATION 5 / TRANSECT III 9 /9 /77 1530 CST

HYDROGRAPHIC CAST DATA   STATION 2 / TRANSECT III

9/ 8/77 1750 CST   SAMPLE CODE BOPY

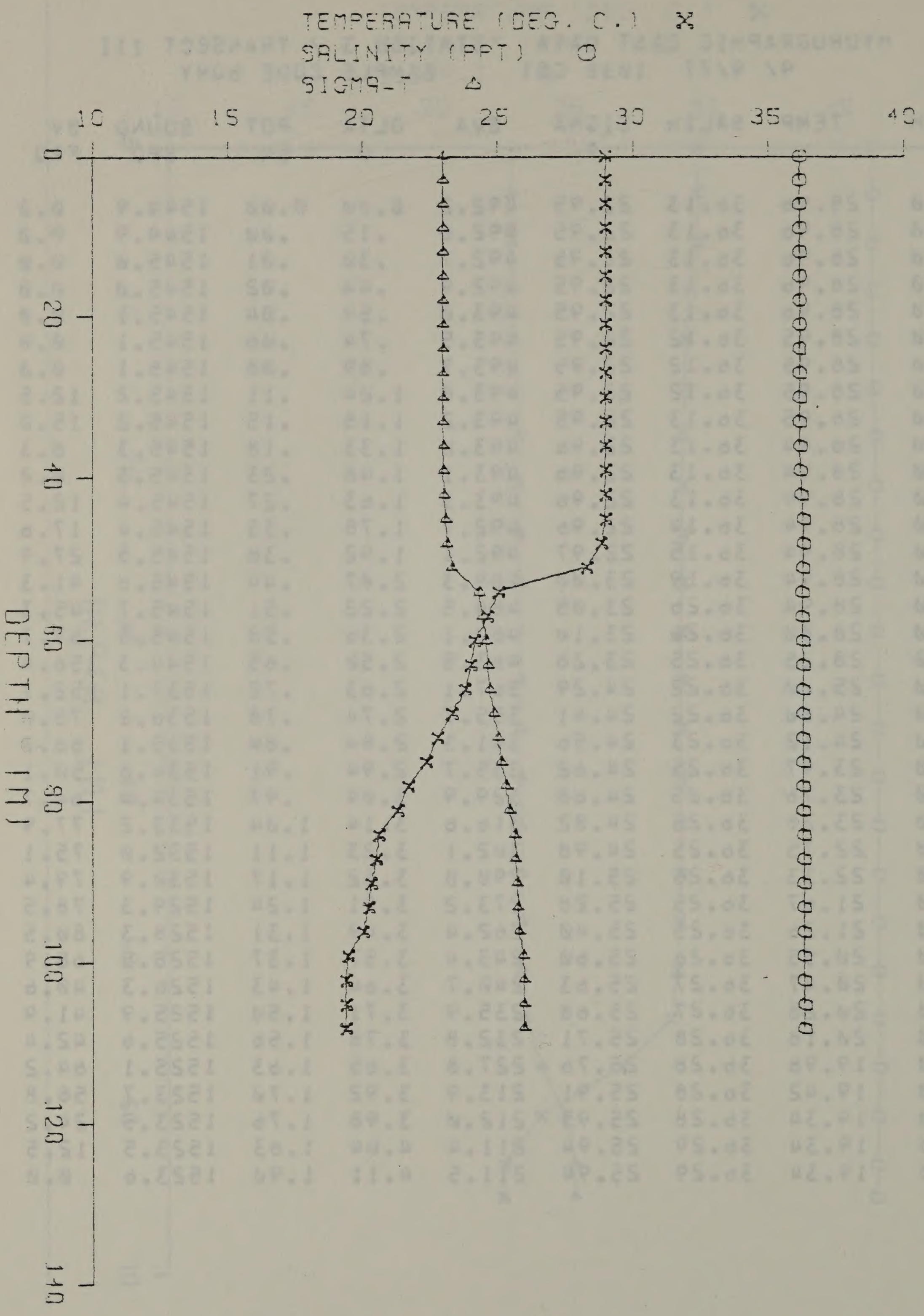
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.60	36.08	22.70	516.5	0.00	0.00	1546.2	0.0
3.0	29.62	36.08	22.69	517.5	.16	.00	1546.2	0.0
6.0	29.60	36.08	22.70	517.0	.31	.01	1546.3	42.1
9.0	29.30	36.05	22.78	509.6	.46	.02	1545.6	52.9
12.0	29.20	36.08	22.83	504.3	.62	.04	1545.5	49.9
15.0	29.12	36.13	22.90	498.3	.77	.06	1545.5	53.4
18.0	29.08	36.21	22.97	491.4	.92	.08	1545.5	40.9
21.0	29.08	36.22	22.98	490.8	1.06	.11	1545.6	19.1
24.0	29.05	36.22	22.99	489.9	1.21	.15	1545.6	30.8
27.0	29.01	36.25	23.02	486.6	1.36	.18	1545.6	35.7
30.0	29.00	36.28	23.05	484.3	1.50	.23	1545.6	29.1
33.0	29.00	36.30	23.06	483.0	1.65	.27	1545.7	17.6
36.0	29.00	36.30	23.06	483.1	1.79	.33	1545.7	8.3
39.0	28.99	36.30	23.07	482.9	1.94	.38	1545.8	17.1
42.0	28.98	36.31	23.08	482.0	2.08	.44	1545.8	24.2
45.0	28.95	36.32	23.10	480.5	2.23	.51	1545.8	23.9
48.0	28.92	36.32	23.11	479.6	2.37	.57	1545.8	33.8
51.0	28.83	36.34	23.15	475.4	2.51	.65	1545.7	51.9
54.0	28.62	36.36	23.24	467.4	2.66	.72	1545.3	118.4
57.0	26.80	36.36	23.83	410.9	2.79	.80	1541.4	174.2
60.0	23.80	36.30	24.71	327.2	2.90	.86	1534.4	159.8
63.0	22.45	36.26	25.07	292.8	2.99	.92	1531.1	87.5
65.0	22.40	36.25	25.08	292.3	3.05	.96	1531.0	20.3



STATION 2 / TRANSECT III 9 /8 /77 1750 CST

HYDROGRAPHIC CAST DATA   STATION 3 / TRANSECT III
9/ 9/77   1030 CST   SAMPLE CODE 6ORY

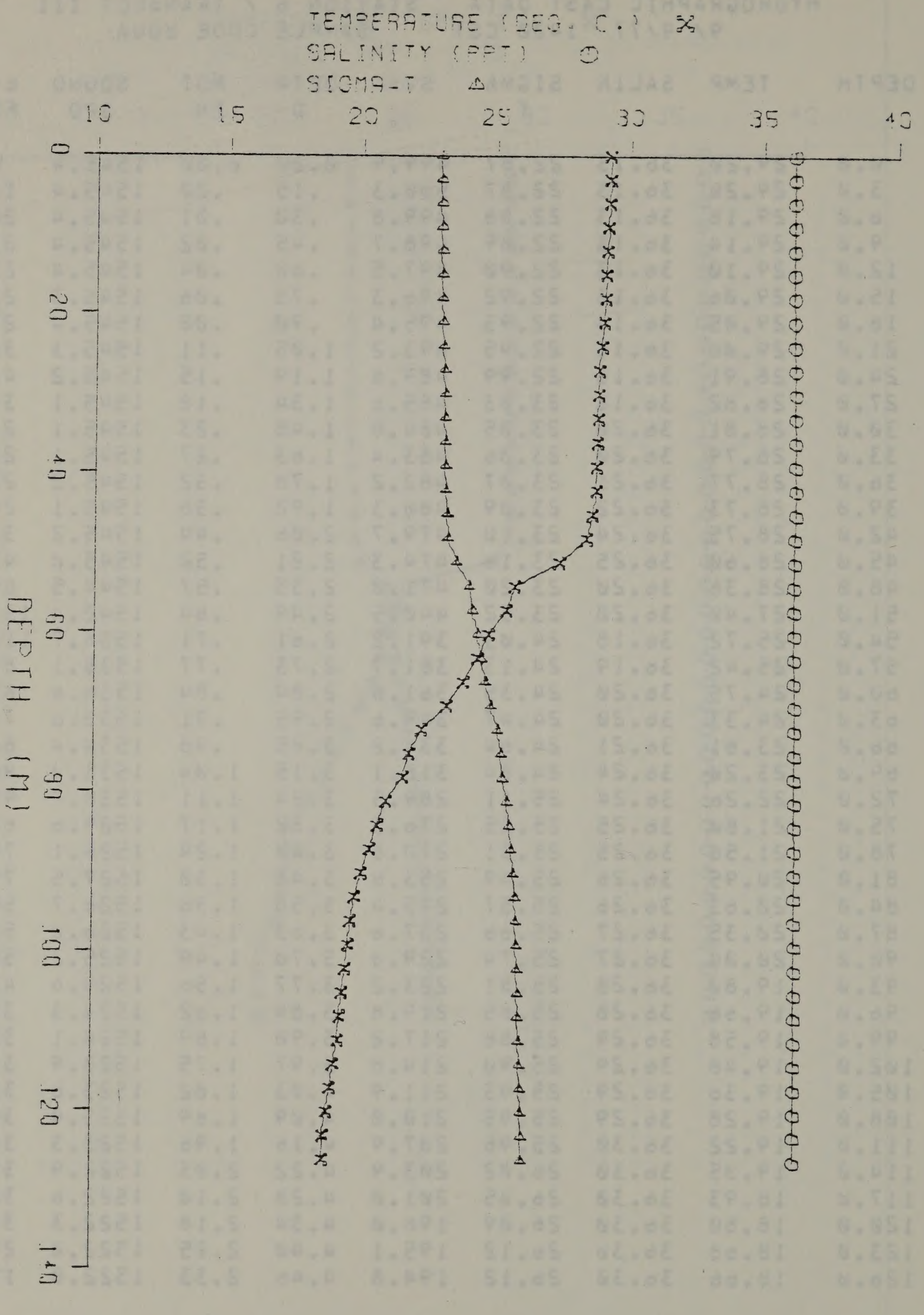
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	28.96	36.13	22.95	492.2	0.00	0.00	1544.9	0.0
3.0	28.96	36.13	22.95	492.6	.15	.00	1544.9	0.0
6.0	28.96	36.13	22.95	492.7	.30	.01	1545.0	0.0
9.0	28.96	36.13	22.95	492.9	.44	.02	1545.0	0.0
12.0	28.96	36.13	22.95	493.0	.59	.04	1545.1	0.0
15.0	28.95	36.12	22.95	493.5	.74	.06	1545.1	0.0
18.0	28.95	36.12	22.95	493.7	.89	.08	1545.1	0.0
21.0	28.95	36.12	22.95	493.8	1.04	.11	1545.2	12.5
24.0	28.95	36.13	22.95	493.2	1.18	.15	1545.2	15.0
27.0	28.94	36.13	22.96	493.0	1.33	.18	1545.3	8.3
30.0	28.94	36.13	22.96	493.1	1.48	.23	1545.3	0.0
33.0	28.94	36.13	22.96	493.3	1.63	.27	1545.4	12.5
36.0	28.94	36.14	22.96	492.7	1.78	.33	1545.4	17.6
39.0	28.94	36.15	22.97	492.1	1.92	.38	1545.5	27.9
42.0	28.94	36.19	23.00	489.3	2.07	.44	1545.6	41.3
45.0	28.94	36.26	23.05	484.5	2.22	.51	1545.7	45.3
48.0	28.80	36.26	23.10	480.1	2.36	.58	1545.5	67.7
51.0	28.25	36.25	23.28	463.5	2.50	.65	1544.3	156.4
54.0	25.00	36.22	24.29	367.1	2.63	.72	1537.1	152.7
57.0	24.60	36.22	24.41	355.7	2.74	.78	1536.2	75.0
60.0	24.12	36.23	24.56	341.3	2.84	.84	1535.1	66.0
63.0	23.97	36.25	24.62	335.7	2.94	.91	1534.8	50.1
66.0	23.76	36.25	24.68	329.9	3.04	.97	1534.4	64.7
69.0	23.28	36.25	24.82	316.6	3.14	1.04	1533.2	77.9
72.0	22.75	36.25	24.98	302.1	3.23	1.11	1532.0	75.1
75.0	22.33	36.25	25.10	290.8	3.32	1.17	1530.9	79.4
78.0	21.67	36.25	25.28	273.2	3.41	1.24	1529.3	78.5
81.0	21.26	36.25	25.40	262.4	3.49	1.31	1528.3	80.5
84.0	20.55	36.26	25.60	243.4	3.57	1.37	1526.5	68.9
87.0	20.47	36.27	25.63	240.7	3.64	1.43	1526.3	40.6
90.0	20.28	36.27	25.68	235.9	3.71	1.50	1525.9	41.9
93.0	20.18	36.28	25.71	232.8	3.78	1.56	1525.6	42.4
96.0	19.98	36.28	25.76	227.8	3.85	1.63	1525.1	64.2
99.0	19.42	36.28	25.91	213.9	3.92	1.70	1523.7	58.8
102.0	19.34	36.28	25.93	212.0	3.98	1.76	1523.5	24.2
105.0	19.34	36.29	25.94	211.4	4.04	1.83	1523.5	12.5
108.0	19.34	36.29	25.94	211.5	4.11	1.90	1523.6	0.0



STATION 3 / TRANSECT III 9 /9 /77 1030 CST

HYDROGRAPHIC CAST DATA   STATION 6 / TRANSECT III
9/ 9/77   1400 CST   SAMPLE CODE BOUA

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.20	36.13	22.87	499.9	0.00	0.00	1545.4	0.0
3.0	29.20	36.13	22.87	500.3	.15	.00	1545.4	11.8
6.0	29.18	36.13	22.88	499.8	.30	.01	1545.4	20.4
9.0	29.14	36.13	22.89	498.7	.45	.02	1545.4	23.6
12.0	29.10	36.13	22.90	497.5	.60	.04	1545.4	23.6
15.0	29.06	36.13	22.92	496.3	.75	.06	1545.3	22.4
18.0	29.05	36.14	22.93	495.4	.90	.08	1545.4	27.0
21.0	29.00	36.15	22.95	493.2	1.05	.11	1545.3	35.8
24.0	28.91	36.16	22.99	489.8	1.19	.15	1545.2	41.4
27.0	28.82	36.18	23.03	485.6	1.34	.18	1545.1	36.2
30.0	28.81	36.20	23.05	484.0	1.48	.23	1545.1	22.7
33.0	28.79	36.20	23.06	483.4	1.63	.27	1545.1	20.8
36.0	28.77	36.21	23.07	482.2	1.78	.32	1545.2	26.9
39.0	28.73	36.22	23.09	480.3	1.92	.38	1545.1	24.6
42.0	28.75	36.24	23.10	479.7	2.06	.44	1545.2	36.9
45.0	28.60	36.25	23.16	474.3	2.21	.50	1545.0	43.8
48.0	28.38	36.20	23.20	471.0	2.35	.57	1544.5	85.8
51.0	27.40	36.20	23.52	440.5	2.49	.64	1542.4	131.5
54.0	25.72	36.18	24.03	391.2	2.61	.71	1538.7	112.9
57.0	25.42	36.19	24.13	381.7	2.73	.77	1538.1	80.3
60.0	24.75	36.20	24.35	361.6	2.84	.84	1536.6	83.6
63.0	24.33	36.20	24.47	349.6	2.95	.91	1535.6	77.2
66.0	23.81	36.21	24.64	334.2	3.05	.98	1534.4	86.6
69.0	23.20	36.24	24.84	315.1	3.15	1.04	1533.0	98.6
72.0	22.26	36.24	25.11	289.5	3.24	1.11	1530.7	91.6
75.0	21.80	36.25	25.25	276.5	3.32	1.17	1529.6	64.0
78.0	21.58	36.25	25.31	270.8	3.40	1.24	1529.1	70.7
81.0	20.95	36.26	25.49	253.6	3.48	1.30	1527.5	74.3
84.0	20.63	36.26	25.57	245.4	3.56	1.36	1526.7	59.2
87.0	20.35	36.27	25.66	237.6	3.63	1.43	1526.0	58.4
90.0	20.04	36.27	25.74	229.8	3.70	1.49	1525.2	56.3
93.0	19.80	36.28	25.81	223.2	3.77	1.56	1524.6	47.1
96.0	19.66	36.28	25.85	219.8	3.84	1.62	1524.3	36.7
99.0	19.58	36.29	25.88	217.2	3.90	1.69	1524.1	33.6
102.0	19.48	36.29	25.90	214.8	3.97	1.75	1523.9	34.4
105.0	19.36	36.29	25.93	211.9	4.03	1.82	1523.6	32.7
108.0	19.28	36.29	25.95	210.0	4.09	1.89	1523.4	30.1
111.0	19.22	36.30	25.98	207.9	4.16	1.96	1523.3	37.1
114.0	19.05	36.30	26.02	203.9	4.22	2.03	1522.9	39.2
117.0	18.93	36.30	26.05	201.0	4.28	2.10	1522.6	36.3
120.0	18.80	36.30	26.09	198.0	4.34	2.18	1522.3	36.2
123.0	18.68	36.30	26.12	195.1	4.40	2.25	1522.0	27.1
126.0	18.66	36.30	26.12	194.8	4.46	2.33	1522.0	14.5



STATION 6 / TRANSECT III 9/9/77 1400 CST

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT IV
9/ 7/77 2125 CST SAMPLE CODE BPAB

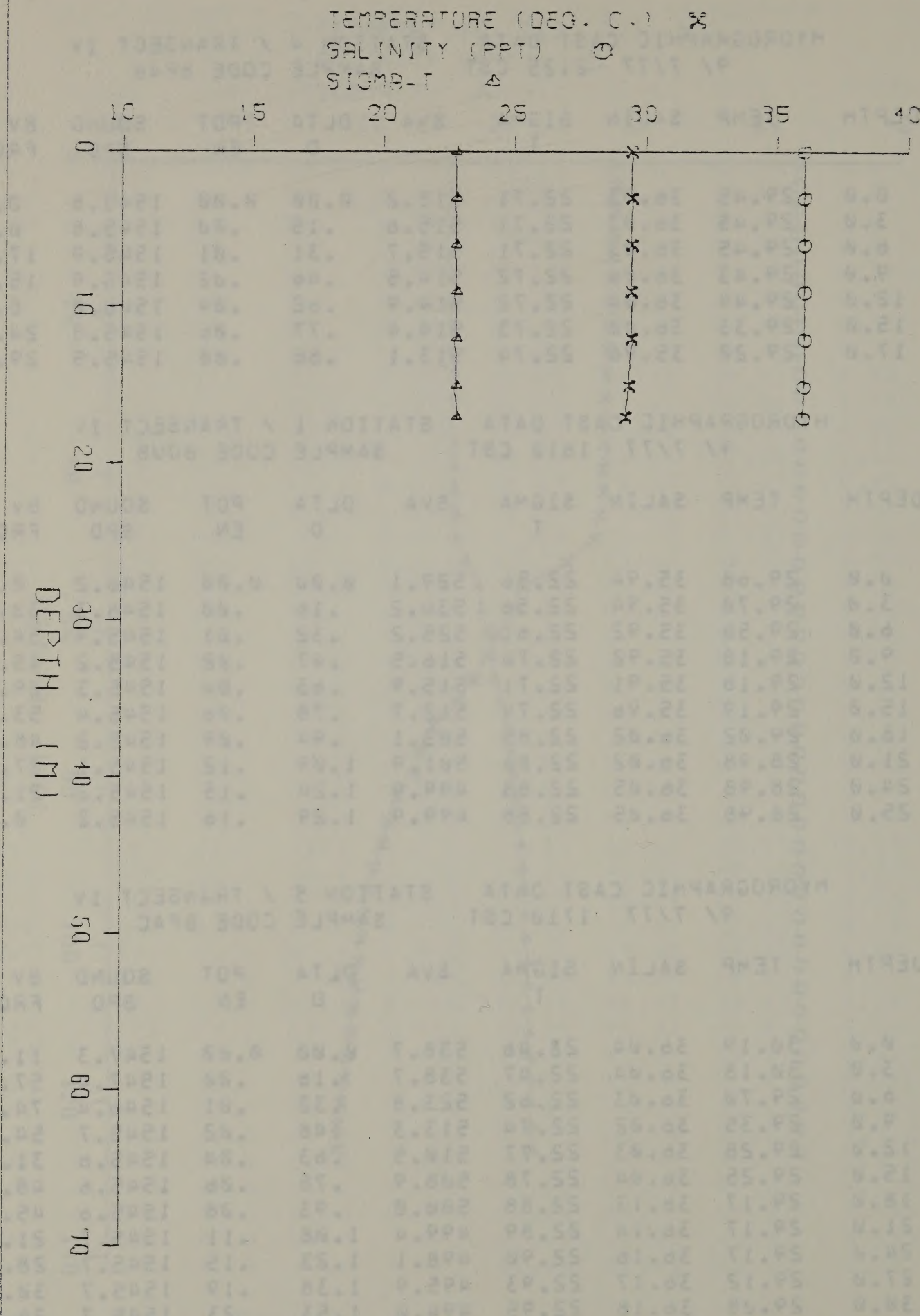
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.45	36.03	22.71	515.2	0.00	0.00	1545.8	0.0
3.0	29.45	36.03	22.71	515.6	.15	.00	1545.8	0.0
6.0	29.45	36.03	22.71	515.7	.31	.01	1545.9	17.2
9.0	29.43	36.04	22.72	514.5	.46	.02	1545.9	15.0
12.0	29.44	36.04	22.72	514.9	.62	.04	1546.0	8.9
15.0	29.33	36.00	22.73	514.4	.77	.06	1545.8	24.0
17.0	29.20	35.96	22.74	513.1	.88	.08	1545.5	29.3

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT IV
9/ 7/77 1810 CST SAMPLE CODE BOUB

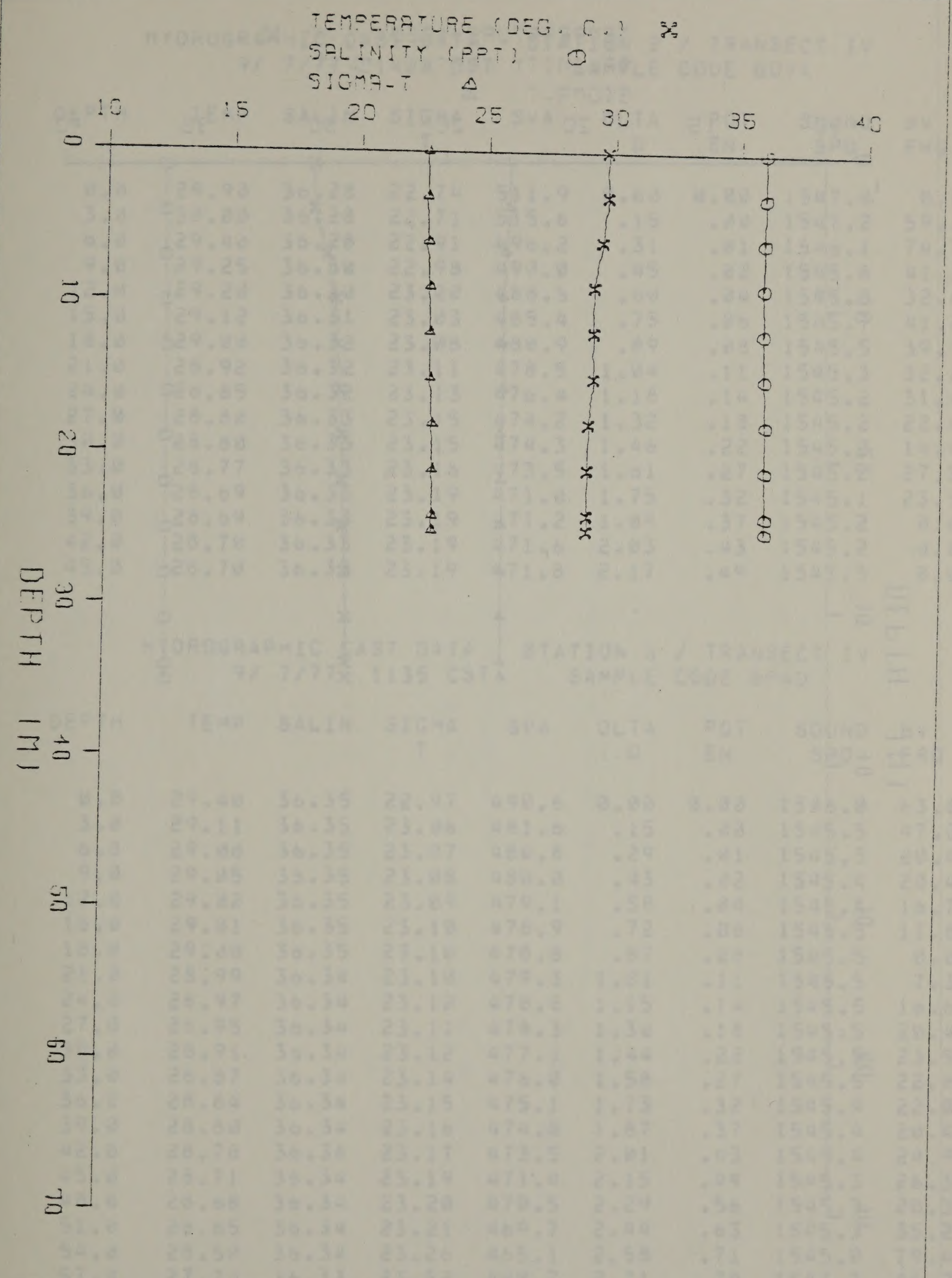
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.68	35.94	22.56	529.1	0.00	0.00	1546.2	0.0
3.0	29.70	35.94	22.56	530.2	.16	.00	1546.3	30.9
6.0	29.50	35.92	22.61	525.2	.32	.01	1545.9	54.9
9.0	29.18	35.90	22.70	516.5	.47	.02	1545.2	45.6
12.0	29.18	35.91	22.71	515.9	.63	.04	1545.3	29.3
15.0	29.19	35.96	22.74	512.7	.78	.06	1545.4	53.1
18.0	29.02	36.02	22.85	503.1	.94	.09	1545.2	48.9
21.0	28.98	36.02	22.86	501.9	1.09	.12	1545.1	27.3
24.0	28.98	36.05	22.88	499.9	1.24	.15	1545.2	21.6
25.0	28.98	36.05	22.88	499.9	1.29	.16	1545.2	0.0

HYDROGRAPHIC CAST DATA STATION 5 / TRANSECT IV
9/ 7/77 1710 CST SAMPLE CODE BPAC

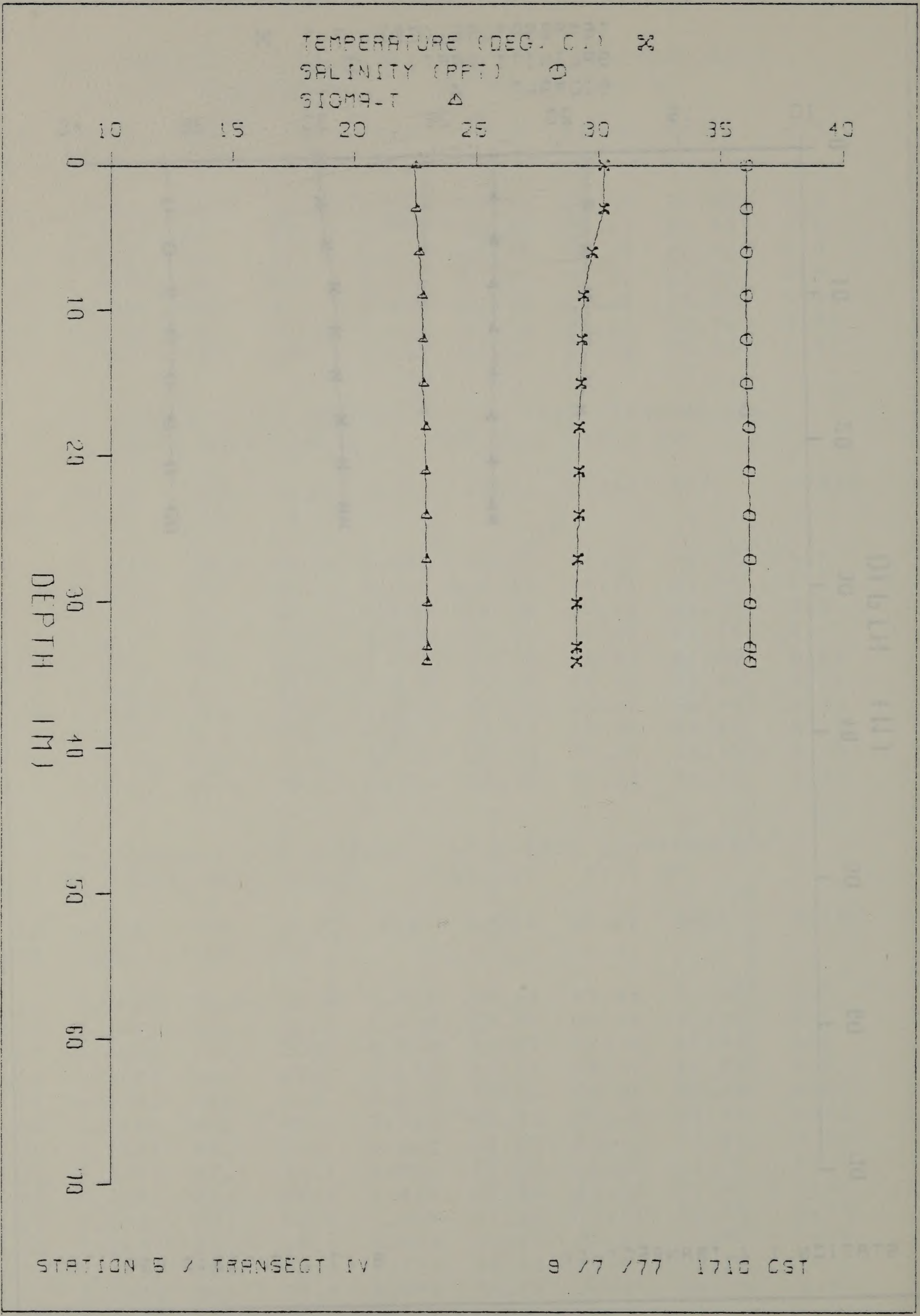
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	30.19	36.04	22.46	538.7	0.00	0.00	1547.3	11.9
3.0	30.18	36.04	22.47	538.7	.16	.00	1547.4	57.6
6.0	29.70	36.03	22.62	523.8	.32	.01	1546.4	74.4
9.0	29.35	36.02	22.74	513.3	.48	.02	1545.7	54.2
12.0	29.28	36.03	22.77	510.5	.63	.04	1545.6	31.7
15.0	29.25	36.04	22.78	508.9	.78	.06	1545.6	48.1
18.0	29.17	36.13	22.88	500.0	.93	.08	1545.6	45.9
21.0	29.17	36.14	22.89	499.4	1.08	.11	1545.7	21.6
24.0	29.17	36.16	22.90	498.1	1.23	.15	1545.7	28.5
27.0	29.12	36.17	22.93	495.9	1.38	.19	1545.7	30.6
30.0	29.08	36.18	22.95	494.0	1.53	.23	1545.7	24.3
33.0	29.08	36.19	22.95	493.5	1.68	.28	1545.7	12.5
34.0	29.08	36.19	22.95	493.5	1.73	.30	1545.8	0.0



STATION 4 / TRANSECT IV 8 /7 /77 2125 CST



STATION 1 / TRANSECT IV 9 /7 /77 1810 CST



STATION 5 / TRANSECT IV 9 /7 /77 1710 CST

HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT IV

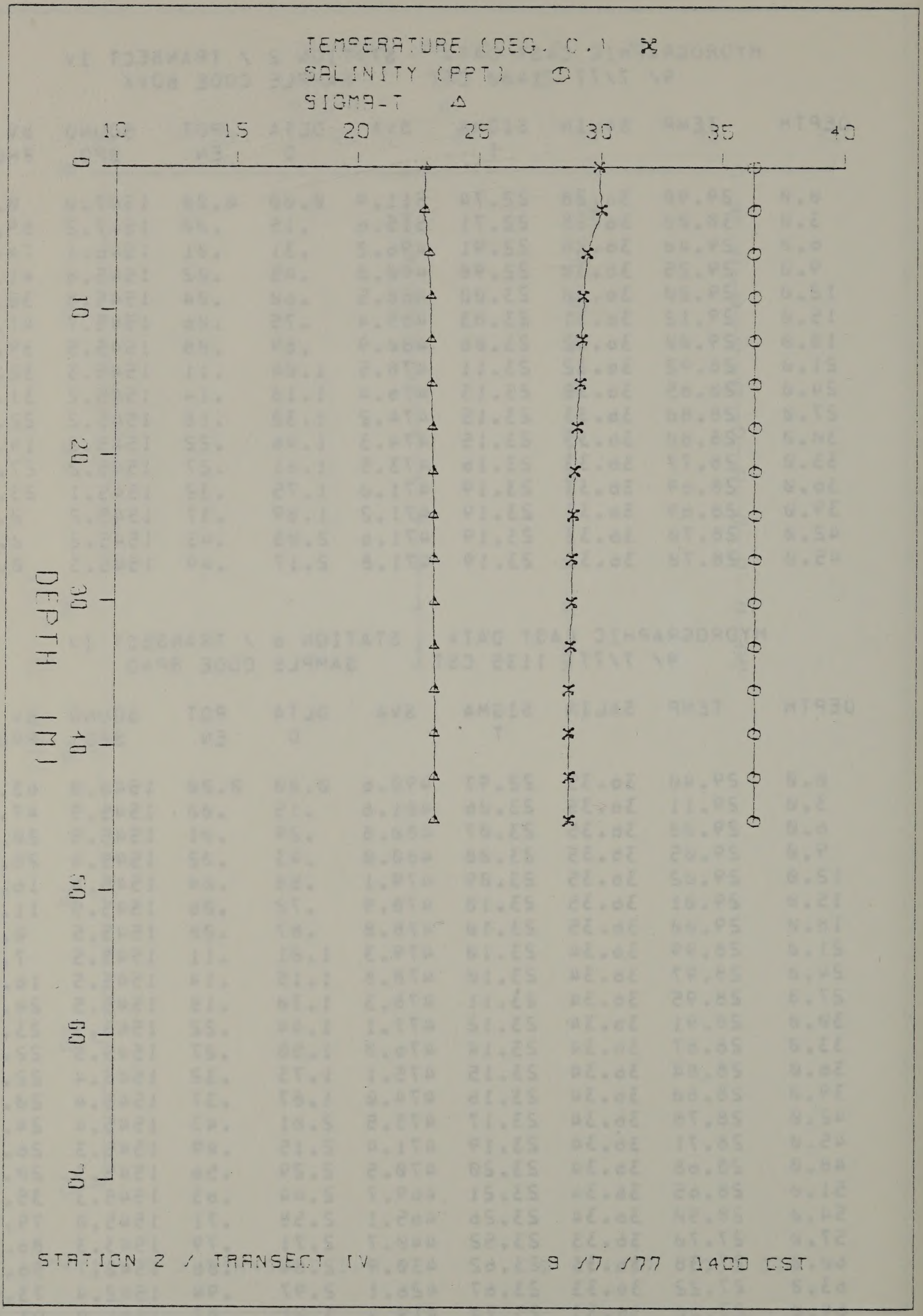
9/ 7/77 1400 CST SAMPLE CODE BOVX

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.90	36.28	22.74	511.9	0.00	0.00	1547.0	0.0
3.0	30.00	36.28	22.71	515.6	.15	.00	1547.2	59.3
6.0	29.40	36.28	22.91	496.2	.31	.01	1546.1	74.7
9.0	29.25	36.30	22.98	490.0	.45	.02	1545.8	41.3
12.0	29.20	36.30	23.00	488.5	.60	.04	1545.8	32.6
15.0	29.12	36.31	23.03	485.4	.75	.06	1545.7	41.2
18.0	29.00	36.32	23.08	480.9	.89	.08	1545.5	39.3
21.0	28.92	36.32	23.11	478.5	1.04	.11	1545.3	32.2
24.0	28.85	36.32	23.13	476.4	1.18	.14	1545.2	31.4
27.0	28.80	36.33	23.15	474.2	1.32	.18	1545.2	22.4
30.0	28.80	36.33	23.15	474.3	1.46	.22	1545.2	14.4
33.0	28.77	36.33	23.16	473.5	1.61	.27	1545.2	27.5
36.0	28.69	36.33	23.19	471.0	1.75	.32	1545.1	23.5
39.0	28.69	36.33	23.19	471.2	1.89	.37	1545.2	0.0
42.0	28.70	36.33	23.19	471.6	2.03	.43	1545.2	0.0
45.0	28.70	36.33	23.19	471.8	2.17	.49	1545.3	0.0

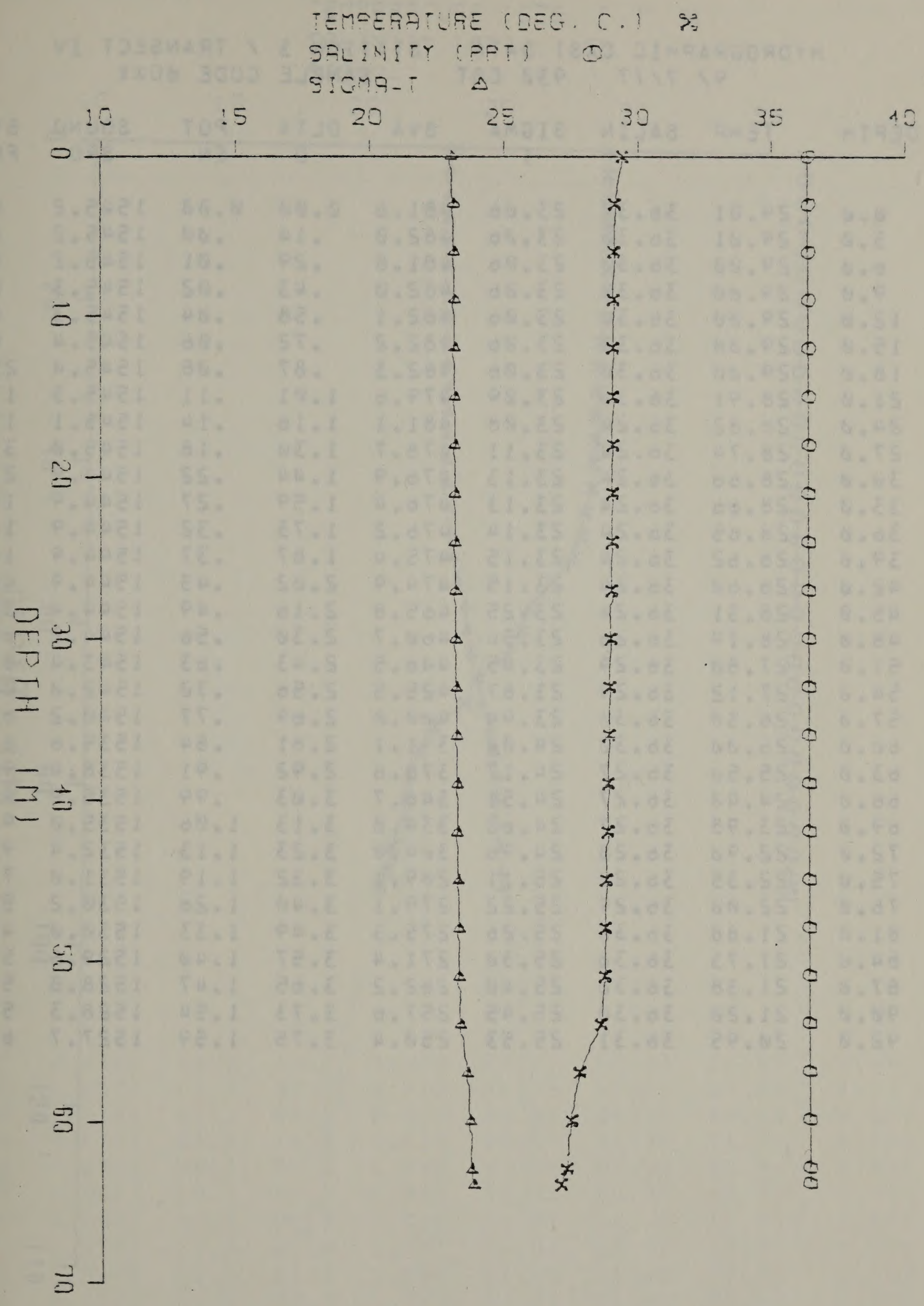
HYDROGRAPHIC CAST DATA STATION 6 / TRANSECT IV

9/ 7/77 1135 CST SAMPLE CODE BPAD

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.40	36.35	22.97	490.6	0.00	0.00	1546.0	63.6
3.0	29.11	36.35	23.06	481.6	.15	.00	1545.5	47.2
6.0	29.08	36.35	23.07	480.8	.29	.01	1545.5	20.4
9.0	29.05	36.35	23.08	480.0	.43	.02	1545.4	20.4
12.0	29.02	36.35	23.09	479.1	.58	.04	1545.4	16.7
15.0	29.01	36.35	23.10	478.9	.72	.06	1545.5	11.8
18.0	29.00	36.35	23.10	478.8	.87	.08	1545.5	0.0
21.0	28.99	36.34	23.10	479.3	1.01	.11	1545.5	7.3
24.0	28.97	36.34	23.10	478.8	1.15	.14	1545.5	16.6
27.0	28.95	36.34	23.11	478.3	1.30	.18	1545.5	20.4
30.0	28.91	36.34	23.12	477.1	1.44	.22	1545.5	23.5
33.0	28.87	36.34	23.14	476.0	1.58	.27	1545.5	22.0
36.0	28.84	36.34	23.15	475.1	1.73	.32	1545.4	22.0
39.0	28.80	36.34	23.16	474.0	1.87	.37	1545.4	20.4
42.0	28.78	36.34	23.17	473.5	2.01	.43	1545.4	24.9
45.0	28.71	36.34	23.19	471.4	2.15	.49	1545.3	26.3
48.0	28.68	36.34	23.20	470.5	2.29	.56	1545.3	20.3
51.0	28.65	36.34	23.21	469.7	2.44	.63	1545.3	35.2
54.0	28.50	36.34	23.26	465.1	2.58	.71	1545.0	79.4
57.0	27.70	36.33	23.52	440.7	2.71	.79	1543.3	86.2
60.0	27.38	36.33	23.62	430.9	2.84	.86	1542.7	56.7
63.0	27.22	36.33	23.67	426.1	2.97	.94	1542.4	73.8
64.0	27.00	36.33	23.74	419.4	3.01	.97	1541.9	93.6



STATION 2 / TRANSECT IV 9 /7 /77 1400 CST



STATION 5 / TRANSECT IV   8 /7 /77   1135 CST

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         HYDROGRAPHIC CAST DATA   STATION 3 / TRANSECT IV
                  9/ 7/77   930 CST     SAMPLE CODE BOXX

 DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND    BV
                             T                D       EN      SPD    FRQ

   0.0     29.01   36.30   23.06   481.6    0.00    0.00   1545.2    0.0
   3.0     29.01   36.30   23.06   482.0     .14     .00   1545.2    8.3
   6.0     29.00   36.30   23.06   481.8     .29     .01   1545.2    8.3
   9.0     29.00   36.30   23.06   482.0     .43     .02   1545.3    0.0
  12.0     29.00   36.30   23.06   482.1     .58     .04   1545.3    0.0
  15.0     29.00   36.30   23.06   482.2     .72     .06   1545.4    0.0
  18.0     29.00   36.30   23.06   482.3     .87     .08   1545.4   25.0
  21.0     28.91   36.30   23.09   479.6    1.01     .11   1545.3   17.7
  24.0     28.82   36.24   23.08   481.1    1.16     .14   1545.1   15.6
  27.0     28.74   36.24   23.11   478.7    1.30     .18   1545.0   31.1
  30.0     28.68   36.24   23.13   476.9    1.44     .22   1544.9   23.5
  33.0     28.66   36.24   23.13   476.4    1.59     .27   1544.9   14.4
  36.0     28.65   36.24   23.14   476.2    1.73     .32   1544.9   16.6
  39.0     28.62   36.24   23.15   475.4    1.87     .37   1544.9   18.5
  42.0     28.60   36.24   23.15   474.9    2.02     .43   1544.9   46.1
  45.0     28.31   36.24   23.25   465.8    2.16     .49   1544.4   55.8
  48.0     28.19   36.26   23.30   460.7    2.30     .56   1544.2   65.1
  51.0     27.80   36.29   23.45   446.5    2.43     .63   1543.4   87.5
  54.0     27.12   36.29   23.67   425.5    2.56     .70   1542.0  100.5
  57.0     26.30   36.30   23.94   400.0    2.69     .77   1540.2   66.5
  60.0     26.00   36.30   24.04   391.1    2.81     .84   1539.6   68.4
  63.0     25.50   36.27   24.17   378.6    2.92     .91   1538.4   98.3
  66.0     24.40   36.27   24.51   346.7    3.03     .99   1535.9   97.5
  69.0     23.98   36.27   24.63   334.8    3.13    1.06   1535.0   96.3
  72.0     22.90   36.28   24.96   304.0    3.23    1.13   1532.4   99.6
  75.0     22.35   36.28   25.11   289.1    3.32    1.19   1531.0   73.8
  78.0     22.00   36.29   25.22   279.1    3.40    1.26   1530.2   55.2
  81.0     21.88   36.30   25.26   275.3    3.49    1.33   1530.0   41.4
  84.0     21.73   36.30   25.30   271.4    3.57    1.40   1529.6   53.6
  87.0     21.38   36.30   25.40   262.2    3.65    1.47   1528.8   55.0
  90.0     21.20   36.30   25.45   257.6    3.73    1.54   1528.3   58.1
  92.0     20.95   36.31   25.53   250.4    3.78    1.59   1527.7   68.6
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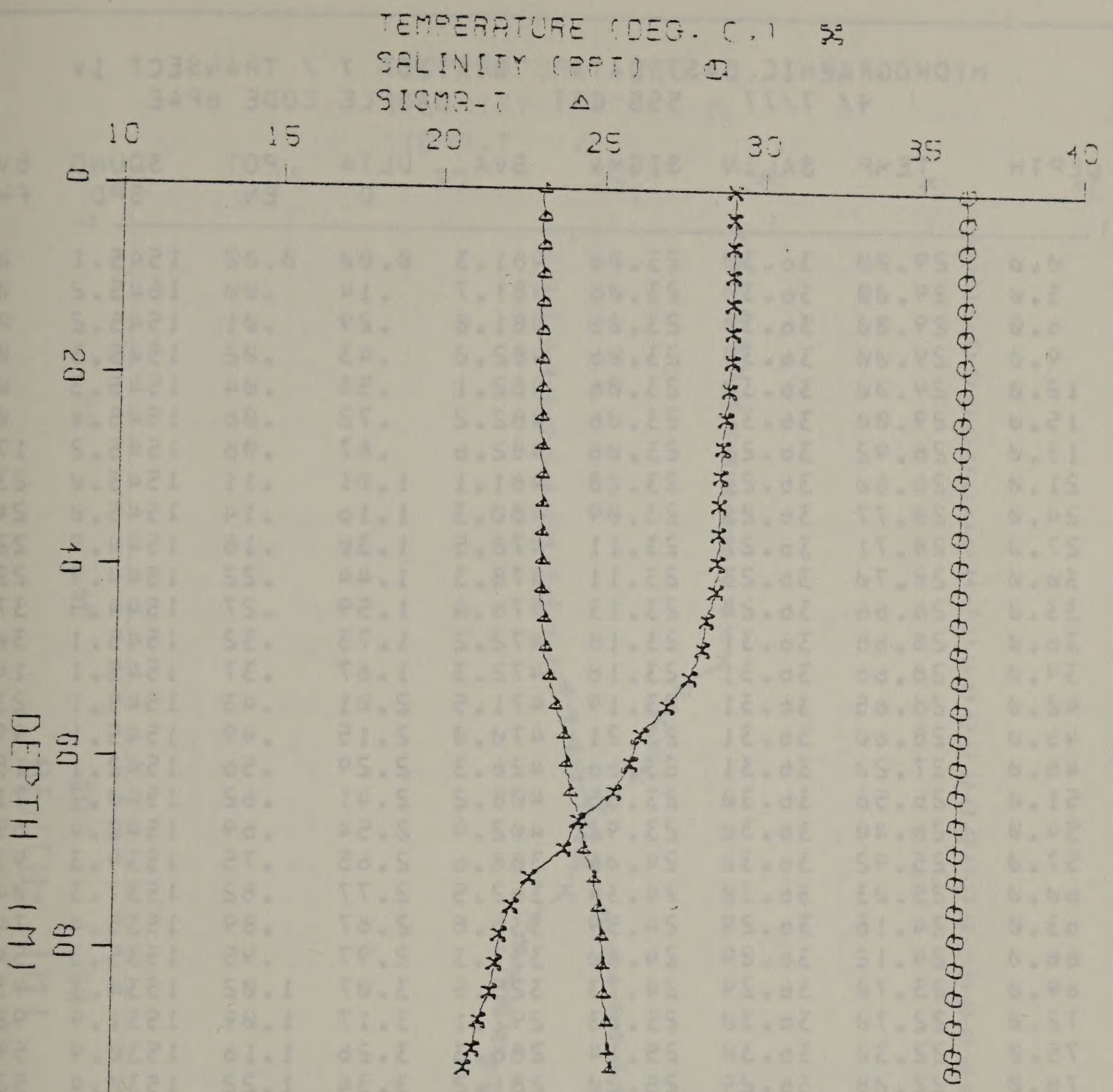
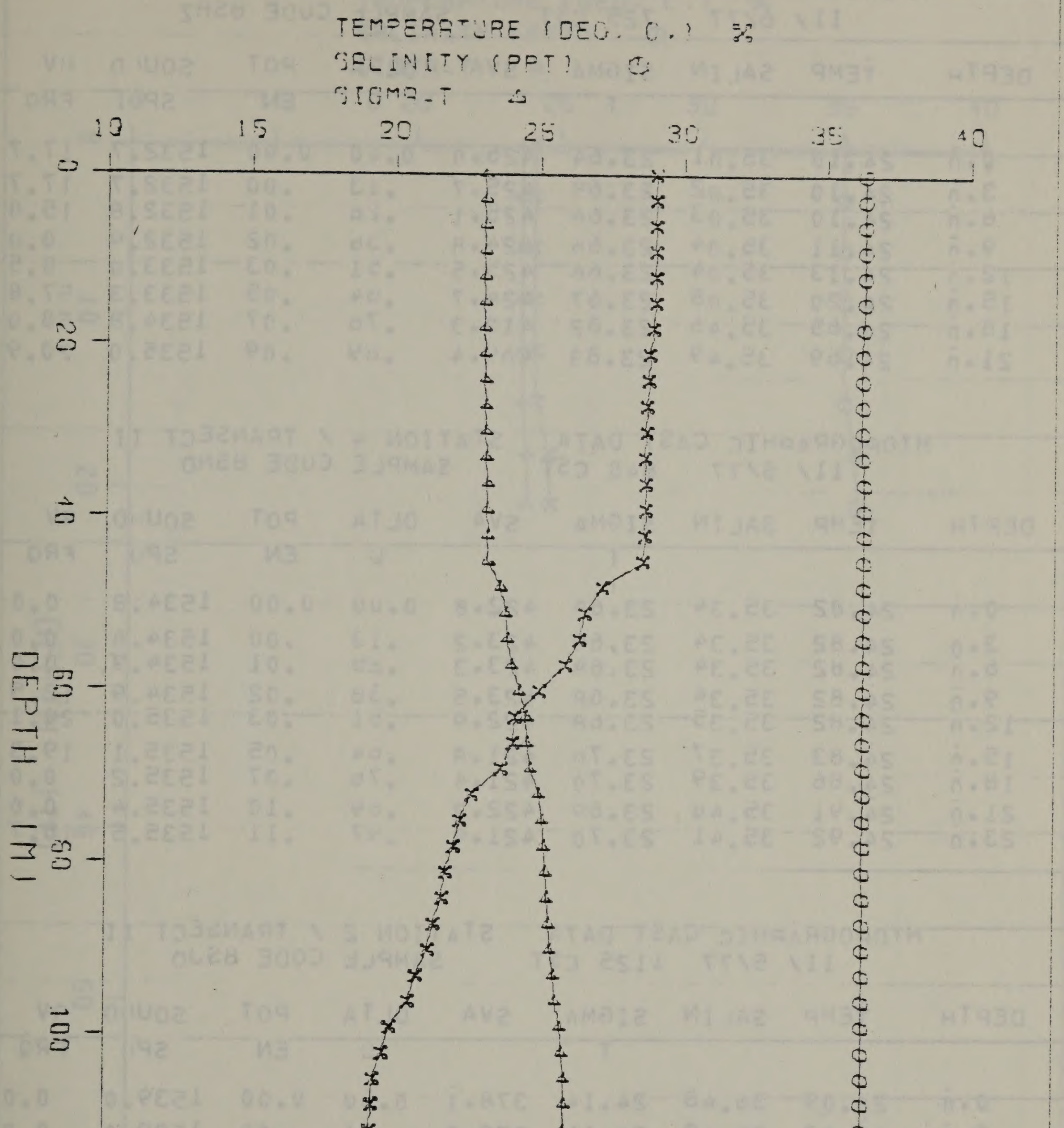


STATION 3 / TRANSECT IV 9 /7 /77 930 CST

HYDROGRAPHIC CAST DATA STATION 7 / TRANSECT IV
9/ 7/77 555 CST SAMPLE CODE BPAE

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	29.00	36.30	23.06	481.3	0.00	0.00	1545.1	0.0
3.0	29.00	36.30	23.06	481.7	.14	.00	1545.2	0.0
6.0	29.00	36.30	23.06	481.8	.29	.01	1545.2	0.0
9.0	29.00	36.30	23.06	482.0	.43	.02	1545.3	0.0
12.0	29.00	36.30	23.06	482.1	.58	.04	1545.3	0.0
15.0	29.00	36.30	23.06	482.2	.72	.06	1545.4	0.0
18.0	28.92	36.26	23.06	482.6	.87	.08	1545.2	17.2
21.0	28.80	36.23	23.08	481.1	1.01	.11	1545.0	23.9
24.0	28.77	36.23	23.09	480.3	1.16	.14	1545.0	24.9
27.0	28.71	36.23	23.11	478.5	1.30	.18	1544.9	22.0
30.0	28.70	36.23	23.11	478.3	1.44	.22	1544.9	22.3
33.0	28.66	36.24	23.13	476.4	1.59	.27	1544.9	37.1
36.0	28.68	36.31	23.18	472.2	1.73	.32	1545.1	30.8
39.0	28.68	36.31	23.18	472.3	1.87	.37	1545.1	14.4
42.0	28.65	36.31	23.19	471.5	2.01	.43	1545.1	23.5
45.0	28.60	36.31	23.21	470.0	2.15	.49	1545.1	99.0
48.0	27.20	36.31	23.66	426.3	2.29	.56	1542.1	115.7
51.0	26.58	36.30	23.85	408.2	2.41	.62	1540.7	71.5
54.0	26.40	36.30	23.91	402.9	2.54	.69	1540.4	65.5
57.0	25.92	36.30	24.06	388.6	2.65	.75	1539.3	93.7
60.0	25.03	36.30	24.34	362.5	2.77	.82	1537.3	104.0
63.0	24.18	36.29	24.59	338.8	2.87	.89	1535.4	74.2
66.0	24.12	36.29	24.60	337.3	2.97	.95	1535.3	54.2
69.0	23.70	36.29	24.73	325.5	3.07	1.02	1534.3	93.4
72.0	22.70	36.30	25.03	297.1	3.17	1.09	1531.9	92.2
75.0	22.30	36.30	25.14	286.3	3.26	1.16	1530.9	59.0
78.0	22.08	36.29	25.20	281.2	3.34	1.22	1530.4	52.4
81.0	21.80	36.29	25.28	273.8	3.42	1.29	1529.7	49.7
84.0	21.68	36.30	25.32	270.0	3.51	1.36	1529.5	49.5
87.0	21.40	36.30	25.39	262.7	3.59	1.43	1528.8	52.3
90.0	21.20	36.30	25.45	257.6	3.66	1.50	1528.3	58.2
93.0	20.80	36.30	25.56	247.3	3.74	1.57	1527.3	61.8
96.0	20.52	36.30	25.63	240.1	3.81	1.64	1526.6	70.5
99.0	19.90	36.30	25.80	224.5	3.88	1.71	1525.0	70.2
102.0	19.62	36.30	25.87	217.5	3.95	1.78	1524.3	55.9
105.0	19.32	36.30	25.95	210.2	4.01	1.85	1523.5	42.7
108.0	19.28	36.30	25.96	209.3	4.08	1.92	1523.4	20.7
111.0	19.24	36.30	25.97	208.4	4.14	1.99	1523.4	30.9
114.0	19.10	36.30	26.01	205.1	4.20	2.06	1523.0	49.9
117.0	18.80	36.31	26.09	197.1	4.26	2.13	1522.3	49.2
120.0	18.67	36.31	26.13	194.1	4.32	2.21	1521.9	28.0
123.0	18.65	36.31	26.13	193.7	4.38	2.28	1521.9	10.2
126.0	18.65	36.31	26.13	193.8	4.44	2.35	1522.0	60.9
129.0	17.90	36.30	26.31	176.7	4.50	2.43	1519.9	66.9
131.0	17.80	36.30	26.34	174.4	4.53	2.47	1519.6	39.1



STATION 7 / TRANSECT IV 9 /7 /77 566 CST

HYDROGRAPHIC CAST DATA STATION 1 / TRANSECT II

11/ 6/77 725 CST SAMPLE CODE BSHZ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	24.10	35.01	23.64	426.0	0.00	0.00	1532.7	17.7
3.0	24.10	35.02	23.65	425.7	.13	.00	1532.7	17.7
6.0	24.10	35.03	23.66	425.1	.26	.01	1532.8	15.8
9.0	24.11	35.04	23.66	424.8	.38	.02	1532.9	0.0
12.0	24.13	35.04	23.66	425.5	.51	.03	1533.0	8.5
15.0	24.20	35.08	23.67	424.7	.64	.05	1533.3	57.8
18.0	24.65	35.46	23.82	410.3	.76	.07	1534.8	58.0
21.0	24.69	35.49	23.83	409.4	.89	.09	1535.0	20.9

HYDROGRAPHIC CAST DATA STATION 4 / TRANSECT II

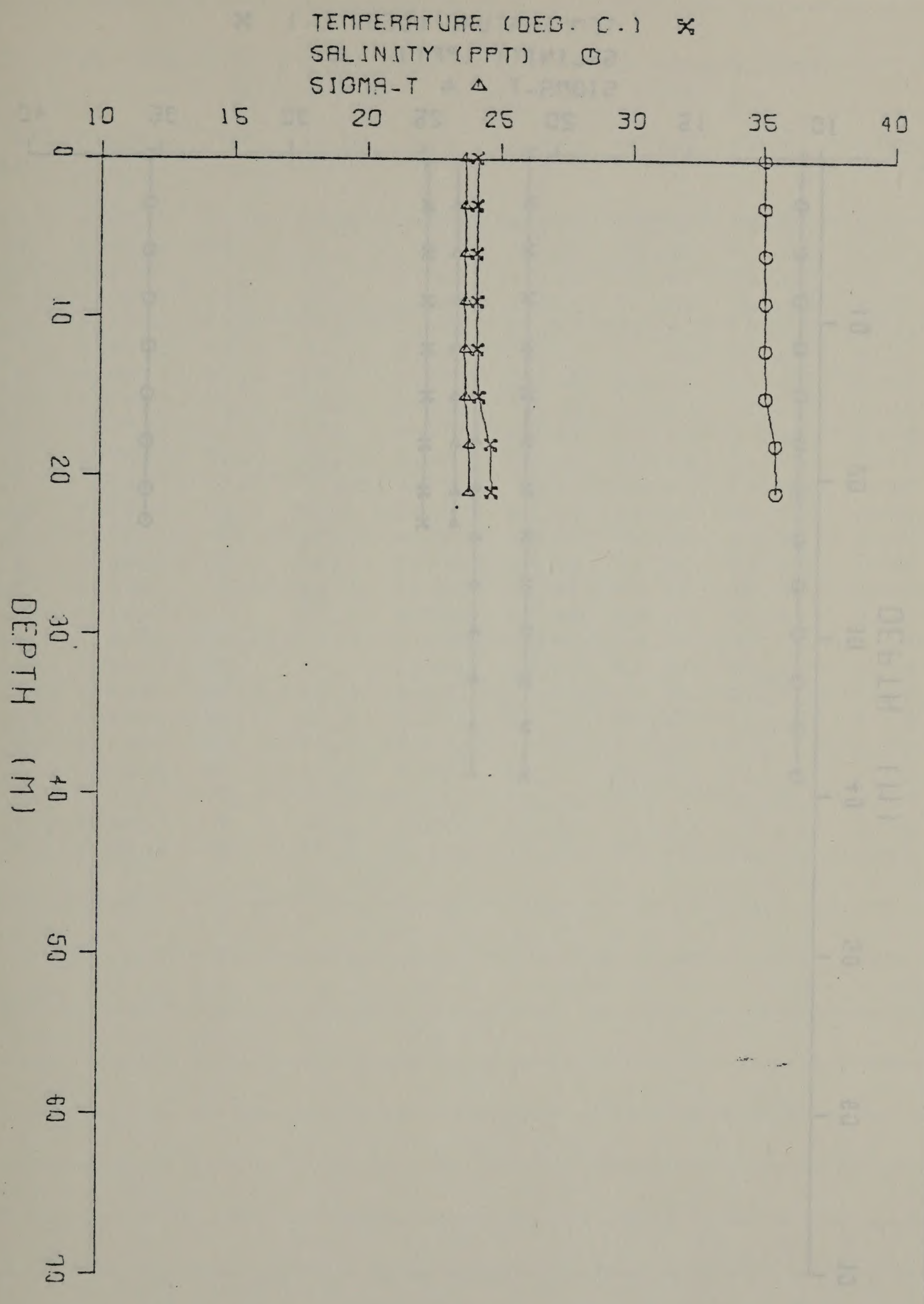
11/ 5/77 840 CST SAMPLE CODE BSND

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	24.82	35.34	23.68	422.8	0.00	0.00	1534.8	0.0
3.0	24.82	35.34	23.68	423.2	.13	.00	1534.8	0.0
6.0	24.82	35.34	23.68	423.3	.25	.01	1534.9	0.0
9.0	24.82	35.34	23.68	423.5	.38	.02	1534.9	12.5
12.0	24.82	35.35	23.68	422.9	.51	.03	1535.0	20.1
15.0	24.83	35.37	23.70	421.8	.64	.05	1535.1	19.3
18.0	24.86	35.39	23.70	421.4	.76	.07	1535.2	0.0
21.0	24.91	35.40	23.69	422.2	.89	.10	1535.4	0.0
23.0	24.92	35.41	23.70	421.9	.97	.11	1535.5	16.7

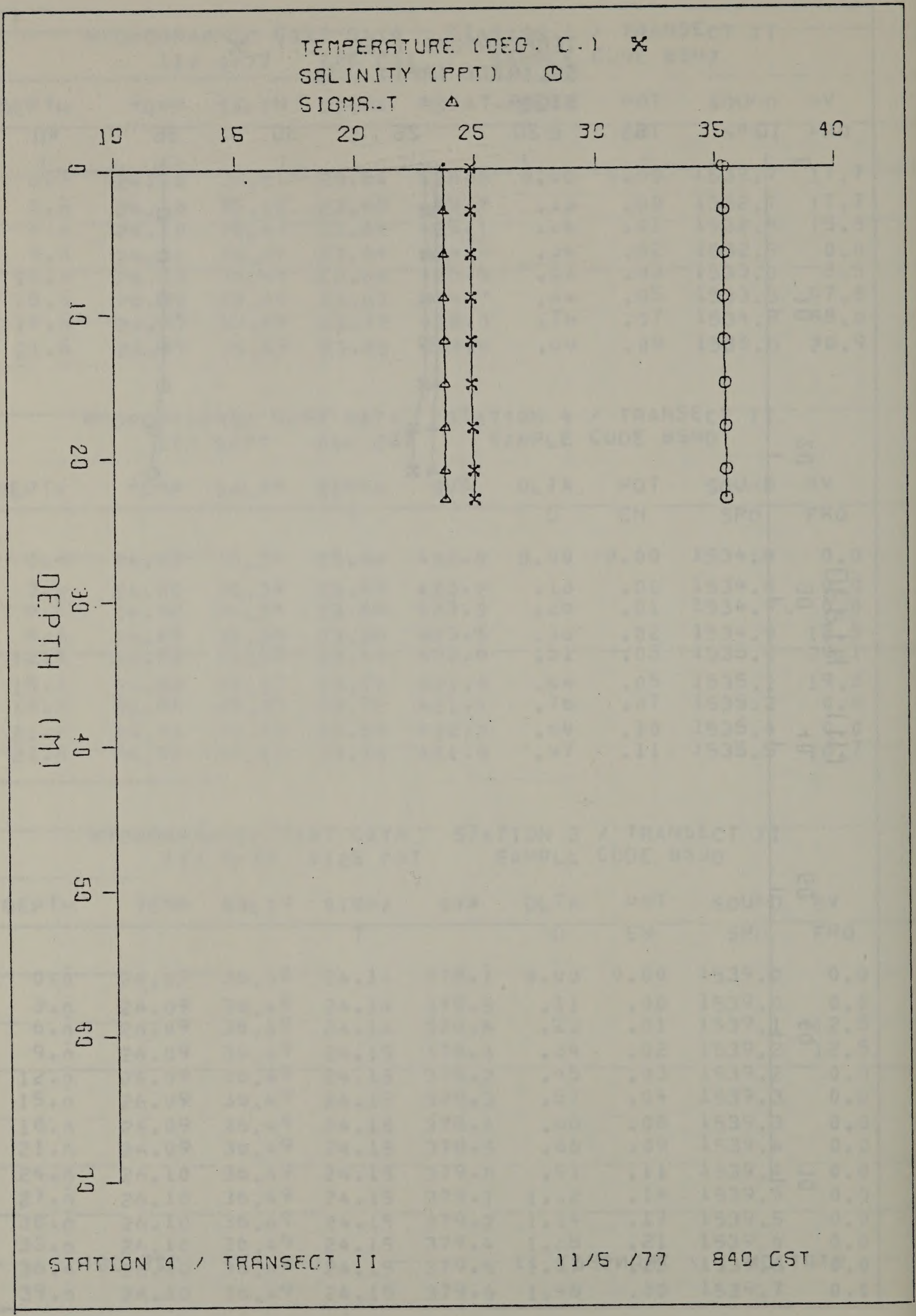
HYDROGRAPHIC CAST DATA STATION 2 / TRANSECT II

11/ 5/77 1125 CST SAMPLE CODE BSJO

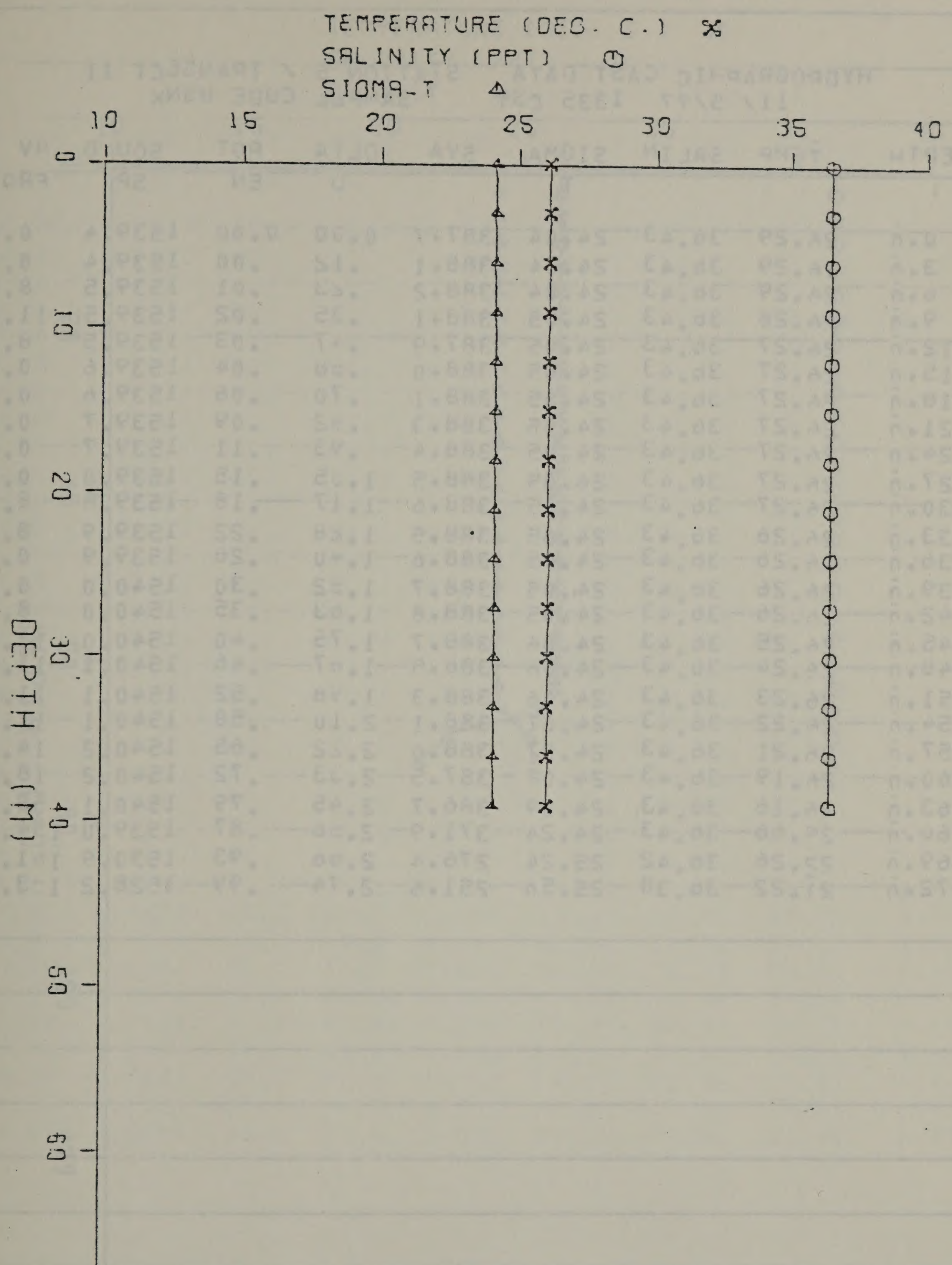
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	26.09	36.48	24.14	378.1	0.00	0.00	1539.0	0.0
3.0	26.09	36.48	24.14	378.5	.11	.00	1539.0	0.0
6.0	26.09	36.48	24.14	378.6	.23	.01	1539.1	12.5
9.0	26.09	36.49	24.15	378.0	.34	.02	1539.2	12.5
12.0	26.09	36.49	24.15	378.2	.45	.03	1539.2	0.0
15.0	26.09	36.49	24.15	378.3	.57	.04	1539.3	0.0
18.0	26.09	36.49	24.15	378.4	.68	.06	1539.3	0.0
21.0	26.09	36.49	24.15	378.5	.80	.09	1539.4	0.0
24.0	26.10	36.49	24.15	379.0	.91	.11	1539.4	0.0
27.0	26.10	36.49	24.15	379.1	1.02	.14	1539.5	0.0
30.0	26.10	36.49	24.15	379.2	1.14	.17	1539.5	0.0
33.0	26.10	36.49	24.15	379.4	1.25	.21	1539.6	0.0
36.0	26.10	36.49	24.15	379.5	1.37	.25	1539.6	0.0
39.0	26.10	36.49	24.15	379.6	1.48	.30	1539.7	0.0



STATION 1 / TRANSECT II 11/6/77 725 CST



STATION 4 / TRANSECT II 11/5/77 840 CST



STATION 2 / TRANSECT II 11/6 /77 1125 CST

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      HYDROGRAPHIC CAST DATA    STATION 5 / TRANSECT II
            11/ 5/77  1335 CST      SAMPLE CODE BSNK

DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND    BV
                           T                 D      EN      SPD    FRQ

   0.0    26.29  36.43   24.04   387.7   0.00    0.00   1539.4    0.0
   3.0    26.29  36.43   24.04   388.1    .12     .00   1539.4    0.0
   6.0    26.29  36.43   24.04   388.2    .23     .01   1539.5    8.1
   9.0    26.28  36.43   24.05   388.1    .35     .02   1539.5   11.4
  12.0    26.27  36.43   24.05   387.9    .47     .03   1539.5    8.1
  15.0    26.27  36.43   24.05   388.0    .58     .04   1539.6    0.0
  18.0    26.27  36.43   24.05   388.1    .70     .06   1539.6    0.0
  21.0    26.27  36.43   24.05   388.3    .82     .09   1539.7    0.0
  24.0    26.27  36.43   24.05   388.4    .93     .11   1539.7    0.0
  27.0    26.27  36.43   24.05   388.5   1.05     .15   1539.8    0.0
  30.0    26.27  36.43   24.05   388.6   1.17     .18   1539.8    8.1
  33.0    26.26  36.43   24.05   388.5   1.28     .22   1539.9    8.1
  36.0    26.26  36.43   24.05   388.6   1.40     .26   1539.9    0.0
  39.0    26.26  36.43   24.05   388.7   1.52     .30   1540.0    0.0
  42.0    26.26  36.43   24.05   388.8   1.63     .35   1540.0    8.1
  45.0    26.25  36.43   24.06   388.7   1.75     .40   1540.0   11.4
  48.0    26.24  36.43   24.06   388.5   1.87     .46   1540.1   11.4
  51.0    26.23  36.43   24.06   388.3   1.98     .52   1540.1   11.4
  54.0    26.22  36.43   24.07   388.1   2.10     .58   1540.1   11.4
  57.0    26.21  36.43   24.07   388.0   2.22     .65   1540.2   14.0
  60.0    26.19  36.43   24.08   387.5   2.33     .72   1540.2   18.0
  63.0    26.16  36.43   24.09   386.7   2.45     .79   1540.1   58.4
  66.0    25.66  36.43   24.24   371.9   2.56     .87   1539.0  154.6
  69.0    22.26  36.42   25.24   276.4   2.66     .93   1530.9  161.3
  72.0    21.22  36.38   25.50   251.6   2.74     .99   1528.2  183.6
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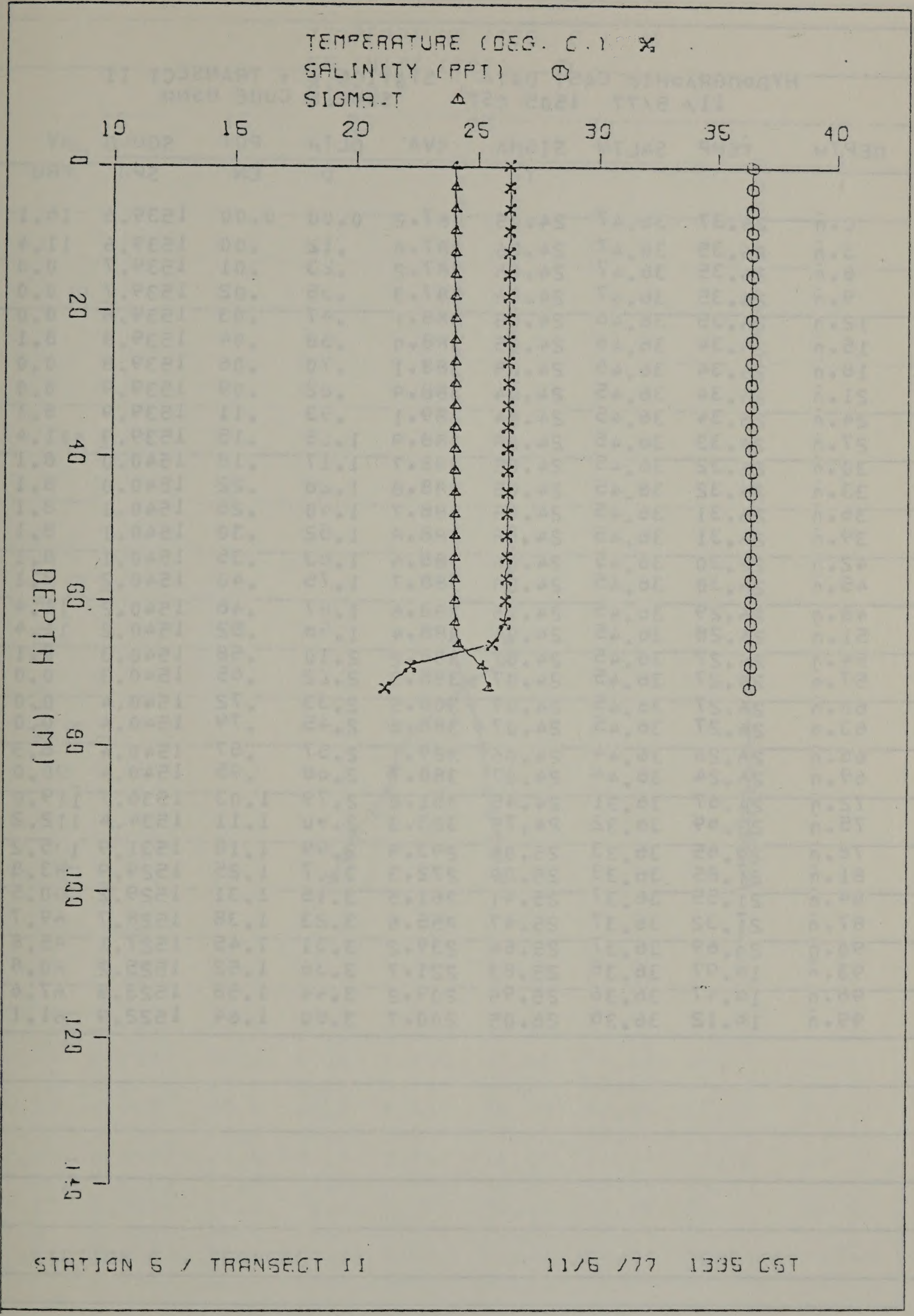
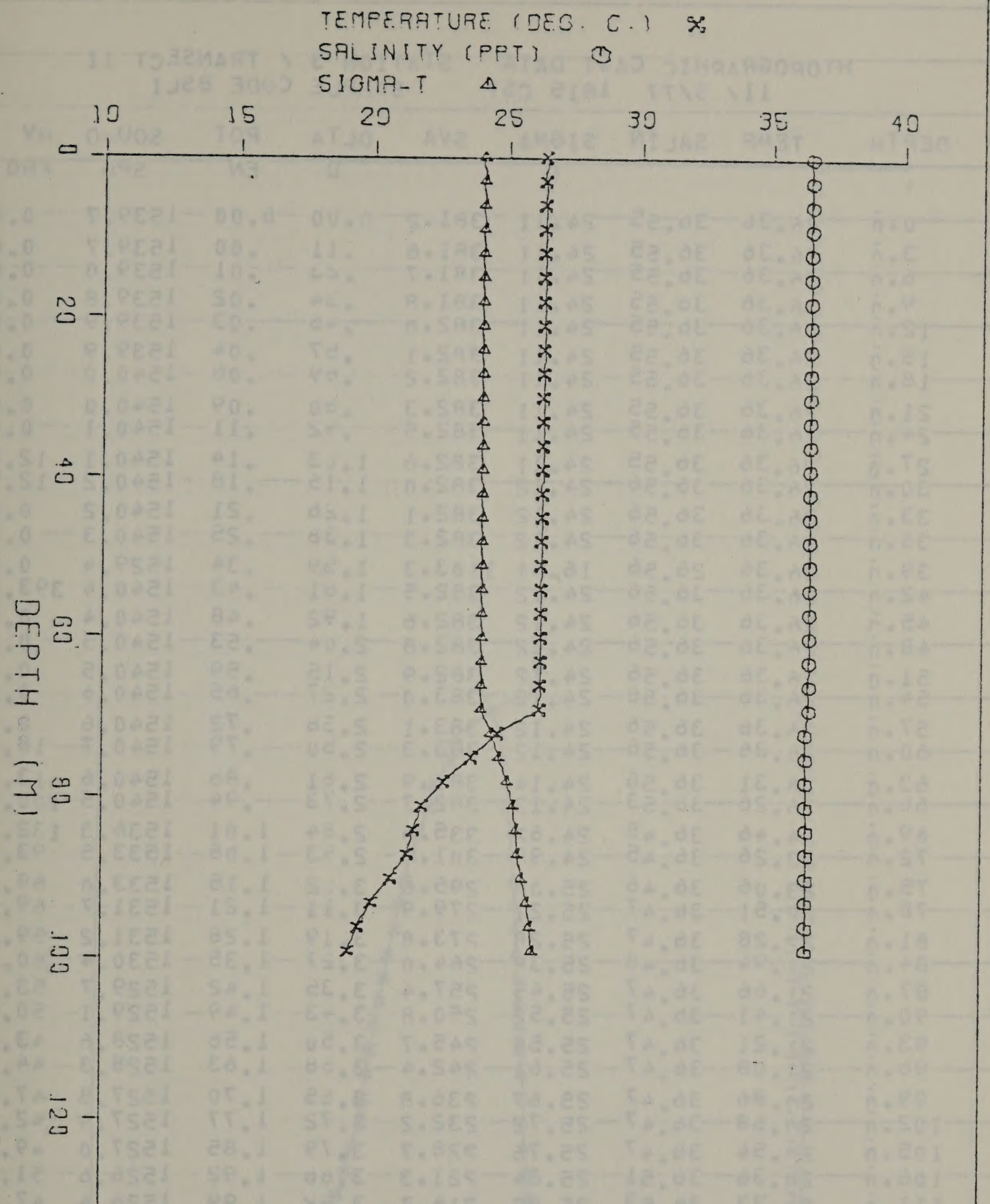


STATION 5 / TRANSECT II 11/6 /77 1335 CST

HYDROGRAPHIC CAST DATA STATION 6 , TRANSECT II
11/ 5/77 1505 CST SAMPLE CODE BSNR

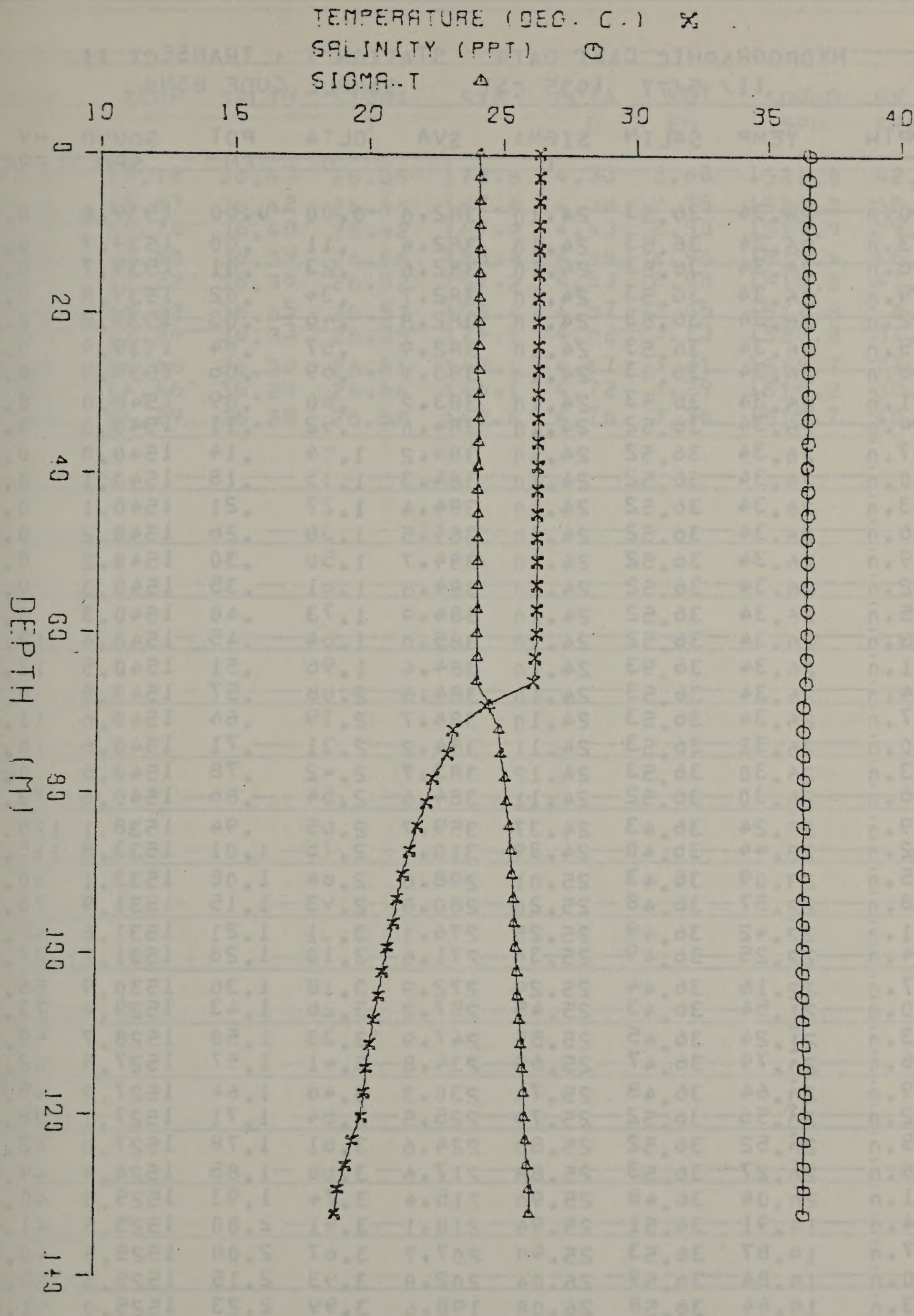
DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	26.37	36.47	24.05	387.2	0.00	0.00	1539.6	16.1
3.0	26.35	36.47	24.06	387.0	.12	.00	1539.6	11.4
6.0	26.35	36.47	24.06	387.2	.23	.01	1539.7	0.0
9.0	26.35	36.47	24.06	387.3	.35	.02	1539.7	0.0
12.0	26.35	36.46	24.05	388.1	.47	.03	1539.8	0.0
15.0	26.34	36.46	24.05	388.0	.58	.04	1539.8	8.1
18.0	26.34	36.46	24.05	388.1	.70	.06	1539.8	0.0
21.0	26.34	36.45	24.04	388.9	.82	.09	1539.9	0.0
24.0	26.34	36.45	24.04	389.1	.93	.11	1539.9	8.1
27.0	26.33	36.45	24.05	388.9	1.05	.15	1539.9	11.4
30.0	26.32	36.45	24.05	388.7	1.17	.18	1540.0	8.1
33.0	26.32	36.45	24.05	388.8	1.28	.22	1540.0	8.1
36.0	26.31	36.45	24.05	388.7	1.40	.26	1540.1	8.1
39.0	26.31	36.45	24.05	388.8	1.52	.30	1540.1	8.1
42.0	26.30	36.45	24.06	388.6	1.63	.35	1540.1	8.1
45.0	26.30	36.45	24.06	388.7	1.75	.40	1540.2	8.1
48.0	26.29	36.45	24.06	388.6	1.87	.46	1540.2	11.4
51.0	26.28	36.45	24.06	388.4	1.98	.52	1540.2	11.4
54.0	26.27	36.45	24.07	388.2	2.10	.58	1540.3	8.1
57.0	26.27	36.45	24.07	388.3	2.22	.65	1540.3	0.0
60.0	26.27	36.45	24.07	388.5	2.33	.72	1540.4	0.0
63.0	26.27	36.45	24.07	388.6	2.45	.79	1540.4	0.0
66.0	26.26	36.44	24.06	389.1	2.57	.87	1540.4	6.3
69.0	26.24	36.44	24.07	388.7	2.68	.95	1540.4	90.0
72.0	24.67	36.31	24.45	351.8	2.79	1.03	1536.7	119.0
75.0	23.69	36.32	24.75	323.3	2.90	1.11	1534.4	112.2
78.0	22.65	36.33	25.06	293.8	2.99	1.18	1531.9	105.2
81.0	21.85	36.33	25.29	272.3	3.07	1.25	1529.9	83.8
84.0	21.55	36.37	25.41	261.5	3.15	1.31	1529.2	60.5
87.0	21.32	36.37	25.47	255.6	3.23	1.38	1528.7	69.7
90.0	20.69	36.37	25.64	239.2	3.31	1.45	1527.1	85.8
93.0	19.97	36.36	25.83	221.7	3.38	1.52	1525.2	80.8
96.0	19.47	36.36	25.96	209.2	3.44	1.58	1523.8	67.6
99.0	19.12	36.36	26.05	200.7	3.50	1.64	1522.9	61.1



STATION 6 . TRANSECT II 11/6 /77 1605 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II
11/ 5/77 1815 CST SAMPLE CODE BSLI

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	26.36	36.55	24.11	381.2	0.00	0.00	1539.7	0.0
3.0	26.36	36.55	24.11	381.6	.11	.00	1539.7	0.0
6.0	26.36	36.55	24.11	381.7	.23	.01	1539.8	0.0
9.0	26.36	36.55	24.11	381.8	.34	.02	1539.8	0.0
12.0	26.36	36.55	24.11	382.0	.46	.03	1539.9	0.0
15.0	26.36	36.55	24.11	382.1	.57	.04	1539.9	0.0
18.0	26.36	36.55	24.11	382.2	.69	.06	1540.0	0.0
21.0	26.36	36.55	24.11	382.3	.80	.09	1540.0	0.0
24.0	26.36	36.55	24.11	382.5	.92	.11	1540.1	0.0
27.0	26.36	36.55	24.11	382.6	1.03	.14	1540.1	12.5
30.0	26.36	36.56	24.12	382.0	1.15	.18	1540.2	12.5
33.0	26.36	36.56	24.12	382.1	1.26	.21	1540.2	0.0
36.0	26.36	36.56	24.12	382.3	1.38	.25	1540.3	0.0
39.0	26.36	26.56	16.61	1103.3	1.59	.34	1529.4	0.0
42.0	26.36	36.56	24.12	382.5	1.81	.43	1540.4	393.5
45.0	26.36	36.56	24.12	382.6	1.92	.48	1540.4	0.0
48.0	26.36	36.56	24.12	382.8	2.04	.53	1540.5	0.0
51.0	26.36	36.56	24.12	382.9	2.15	.59	1540.5	0.0
54.0	26.36	36.56	24.12	383.0	2.27	.65	1540.6	0.0
57.0	26.36	36.56	24.12	383.1	2.38	.72	1540.6	0.0
60.0	26.36	36.56	24.12	383.3	2.50	.79	1540.7	18.0
63.0	26.31	36.56	24.14	381.9	2.61	.86	1540.6	13.6
66.0	26.26	36.53	24.13	382.7	2.73	.94	1540.5	100.3
69.0	24.46	36.45	24.62	335.6	2.84	1.01	1536.3	132.4
72.0	23.26	36.45	24.98	301.8	2.93	1.08	1533.5	93.2
75.0	23.06	36.46	25.05	295.6	3.02	1.15	1533.0	69.1
78.0	22.51	36.47	25.21	279.9	3.11	1.21	1531.7	69.1
81.0	22.28	36.47	25.28	273.8	3.19	1.28	1531.2	59.0
84.0	21.94	36.48	25.38	264.0	3.27	1.35	1530.4	60.0
87.0	21.66	36.47	25.45	257.4	3.35	1.42	1529.7	53.8
90.0	21.41	36.47	25.52	250.8	3.43	1.49	1529.1	50.7
93.0	21.21	36.47	25.58	245.7	3.50	1.56	1528.6	43.3
96.0	21.08	36.47	25.61	242.4	3.58	1.63	1528.3	44.4
99.0	20.86	36.47	25.67	236.8	3.65	1.70	1527.8	47.4
102.0	20.68	36.47	25.72	232.2	3.72	1.77	1527.4	42.3
105.0	20.54	36.47	25.76	228.7	3.79	1.85	1527.0	49.0
108.0	20.36	36.51	25.84	221.3	3.86	1.92	1526.6	51.5
111.0	20.23	36.53	25.89	216.7	3.92	1.99	1526.4	47.7
114.0	20.09	36.56	25.95	211.0	3.99	2.07	1526.1	49.6
117.0	20.01	36.61	26.01	205.5	4.05	2.14	1526.0	40.1
120.0	19.91	36.60	26.03	203.8	4.11	2.22	1525.7	39.4
123.0	19.58	36.56	26.08	198.5	4.17	2.29	1524.8	50.1
126.0	19.33	36.56	26.15	192.4	4.23	2.37	1524.2	52.7
129.0	19.06	36.56	26.22	185.8	4.29	2.44	1523.5	42.0
132.0	18.94	36.54	26.23	184.4	4.34	2.52	1523.2	25.3



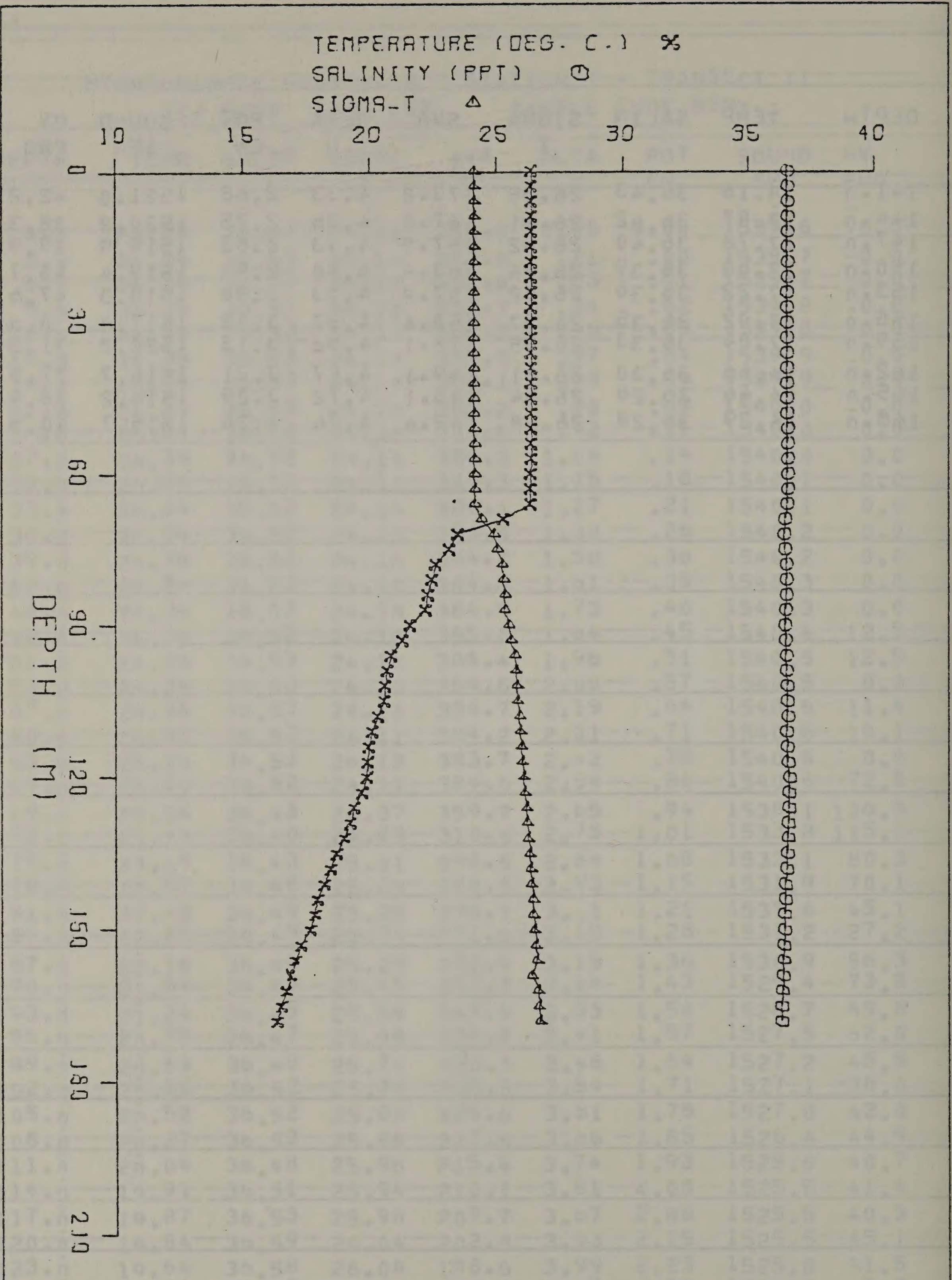
STATION 3 / TRANSECT II 11/6/77 1915 CST

```
        HYDROGRAPHIC CAST DATA    STATION 7 , TRANSECT II
             11/ 5/77  1935 CST      SAMPLE CODE BSNY

  DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA    POT    SOUND   BV
                             T                D      EN     SPD    FRQ

    0.0    26.34   36.53   24.10   382.0   0.00   0.00   1539.6    0.0
    3.0    26.34   36.53   24.10   382.4    .11    .00   1539.7    0.0
    6.0    26.34   36.53   24.10   382.6    .23    .01   1539.7    0.0
    9.0    26.34   36.53   24.10   382.7    .34    .02   1539.8    0.0
   12.0    26.34   36.53   24.10   382.8    .46    .03   1539.8    0.0
   15.0    26.34   36.53   24.10   382.9    .57    .04   1539.9    0.0
   18.0    26.34   36.53   24.10   383.1    .69    .06   1539.9    0.0
   21.0    26.34   36.53   24.10   383.2    .80    .09   1540.0    0.0
   24.0    26.34   36.52   24.10   384.0    .92    .11   1540.0    0.0
   27.0    26.34   36.52   24.10   384.2   1.04    .14   1540.0    0.0
   30.0    26.34   36.52   24.10   384.3   1.15    .18   1540.1    0.0
   33.0    26.34   36.52   24.10   384.4   1.27    .21   1540.1    0.0
   36.0    26.34   36.52   24.10   384.5   1.38    .26   1540.2    0.0
   39.0    26.34   36.52   24.10   384.7   1.50    .30   1540.2    0.0
   42.0    26.34   36.52   24.10   384.8   1.61    .35   1540.3    0.0
   45.0    26.34   36.52   24.10   384.9   1.73    .40   1540.3    0.0
   48.0    26.34   36.52   24.10   385.0   1.84    .45   1540.4   12.5
   51.0    26.34   36.53   24.10   384.4   1.96    .51   1540.5   12.5
   54.0    26.34   36.53   24.10   384.6   2.08    .57   1540.5    0.0
   57.0    26.34   36.53   24.10   384.7   2.19    .64   1540.6   11.4
   60.0    26.32   36.53   24.11   384.2   2.31    .71   1540.6   16.1
   63.0    26.30   36.53   24.12   383.7   2.42    .78   1540.6    0.0
   66.0    26.30   36.52   24.11   384.6   2.54    .86   1540.6   72.5
   69.0    25.24   36.43   24.37   359.7   2.65    .94   1538.1  126.8
   72.0    23.44   36.40   24.89   310.4   2.75   1.01   1533.8  115.1
   75.0    23.09   36.43   25.01   298.6   2.84   1.08   1533.1   80.3
   78.0    22.57   36.48   25.20   280.8   2.93   1.15   1531.9   70.1
   81.0    22.42   36.49   25.25   276.1   3.01   1.21   1531.6   45.1
   84.0    22.25   36.49   25.30   271.6   3.10   1.28   1531.2   27.2
   87.0    22.16   36.44   25.29   272.9   3.18   1.36   1530.9   56.3
   90.0    21.54   36.43   25.45   257.2   3.26   1.43   1529.4   73.8
   93.0    21.24   36.45   25.55   247.9   3.33   1.50   1528.7   69.8
   96.0    20.79   36.47   25.69   234.8   3.41   1.57   1527.5   62.0
   99.0    20.64   36.48   25.74   230.3   3.48   1.64   1527.2   45.5
  102.0    20.56   36.52   25.79   225.5   3.54   1.71   1527.1   36.0
  105.0    20.52   36.52   25.80   224.6   3.61   1.78   1527.0   42.0
  108.0    20.27   36.53   25.88   217.6   3.68   1.85   1526.4   44.9
  111.0    20.04   36.48   25.90   215.4   3.74   1.93   1525.8   40.7
  114.0    19.91   36.51   25.96   210.1   3.81   2.00   1525.5   41.4
  117.0    19.87   36.53   25.98   207.7   3.87   2.08   1525.5   40.5
  120.0    19.84   36.59   26.04   202.8   3.93   2.15   1525.5   45.1
  123.0    19.64   36.58   26.08   198.6   3.99   2.23   1525.0   51.5
  126.0    19.32   36.58   26.17   190.7   4.05   2.30   1524.2   45.3
  129.0    19.17   36.55   26.18   189.3   4.11   2.38   1523.8   35.1
  132.0    18.94   36.53   26.23   185.2   4.17   2.45   1523.2   44.8
  135.0    18.64   36.50   26.28   180.1   4.22   2.53   1522.3   45.2
  138.0    18.40   36.48   26.33   175.9   4.27   2.60   1521.7   37.3
```

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
141.0	18.16	36.43	26.35	173.8	4.33	2.68	1521.0	42.2
144.0	17.87	36.42	26.41	167.8	4.38	2.75	1520.2	38.3
147.0	17.78	36.40	26.42	167.2	4.43	2.83	1519.9	29.9
150.0	17.60	36.39	26.46	163.8	4.48	2.90	1519.4	46.7
153.0	17.22	36.36	26.52	157.2	4.53	2.98	1518.3	47.6
156.0	17.02	36.35	26.57	153.4	4.57	3.05	1517.8	0.0
159.0	17.84	36.33	26.35	174.1	4.62	3.13	1520.2	31.3
162.0	16.66	36.30	26.61	149.1	4.67	3.21	1516.7	77.8
165.0	16.46	36.28	26.64	146.1	4.72	3.29	1516.2	38.4
168.0	16.29	36.28	26.68	142.4	4.76	3.36	1515.7	40.5



STATION 7 , TRANSECT II 11/5/77 1935 CST

```
            HYDROGRAPHIC CAST DATA   STATION 1 / TRANSECT II
                 12/ 3/77   1010 CST     SAMPLE CODE BTWG

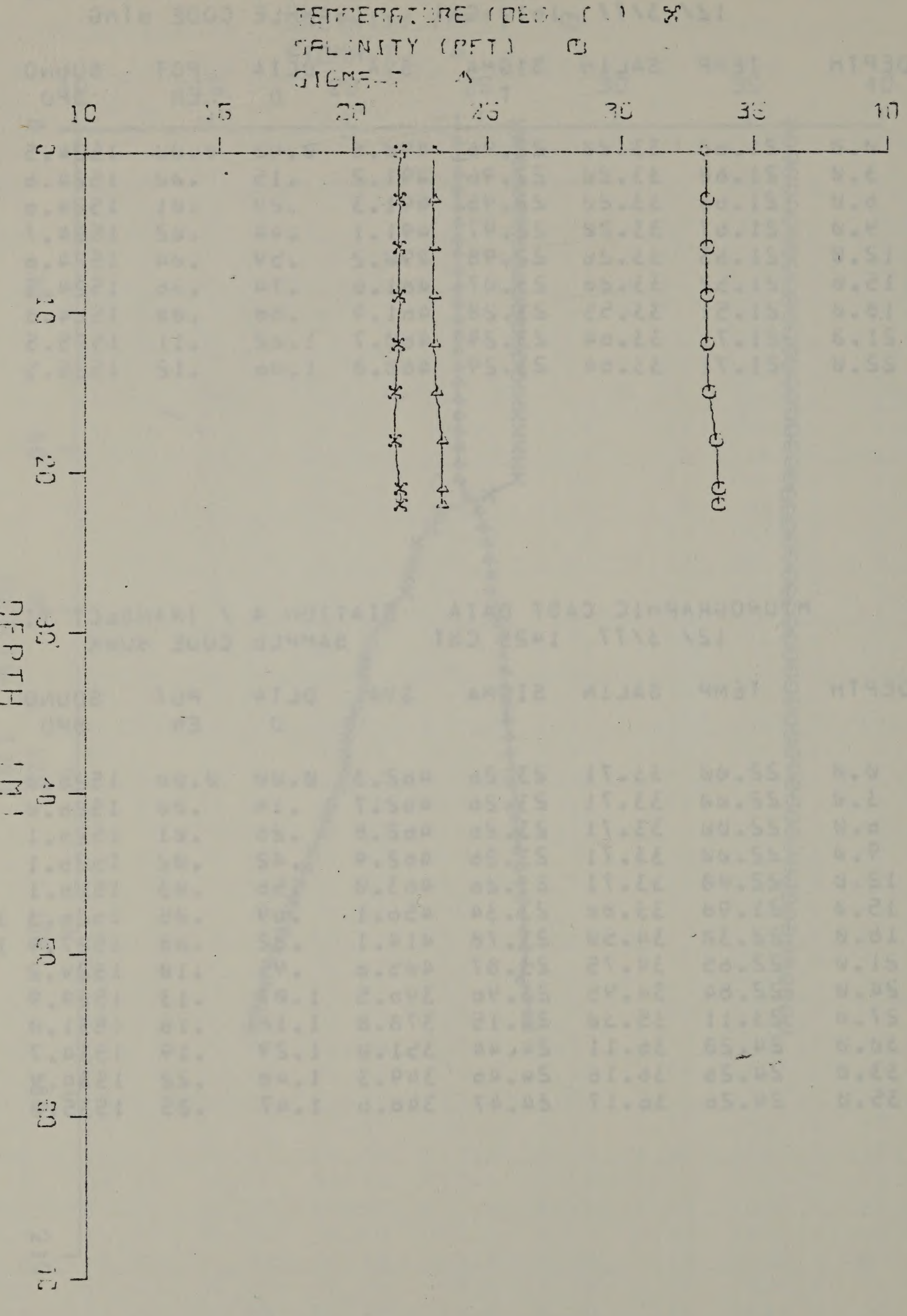
DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND   BV
                            T                 D      EN      SPD   FRQ

  0.0     21.68   33.20   22.96   490.8   0.00    0.00   1524.5    0.0
  3.0     21.68   33.20   22.96   491.2    .15     .00   1524.6    0.0
  6.0     21.68   33.20   22.96   491.3    .29     .01   1524.6    7.5
  9.0     21.67   33.20   22.97   491.1    .44     .02   1524.7   16.8
 12.0     21.63   33.20   22.98   490.2    .59     .04   1524.6   45.8
 15.0     21.52   33.28   23.07   481.6    .74     .06   1524.5   78.5
 18.0     21.51   33.55   23.28   461.9    .88     .08   1524.8   67.5
 21.0     21.71   33.64   23.29   460.7   1.02     .11   1525.5   16.6
 22.0     21.71   33.64   23.29   460.8   1.06     .12   1525.5    0.0
```

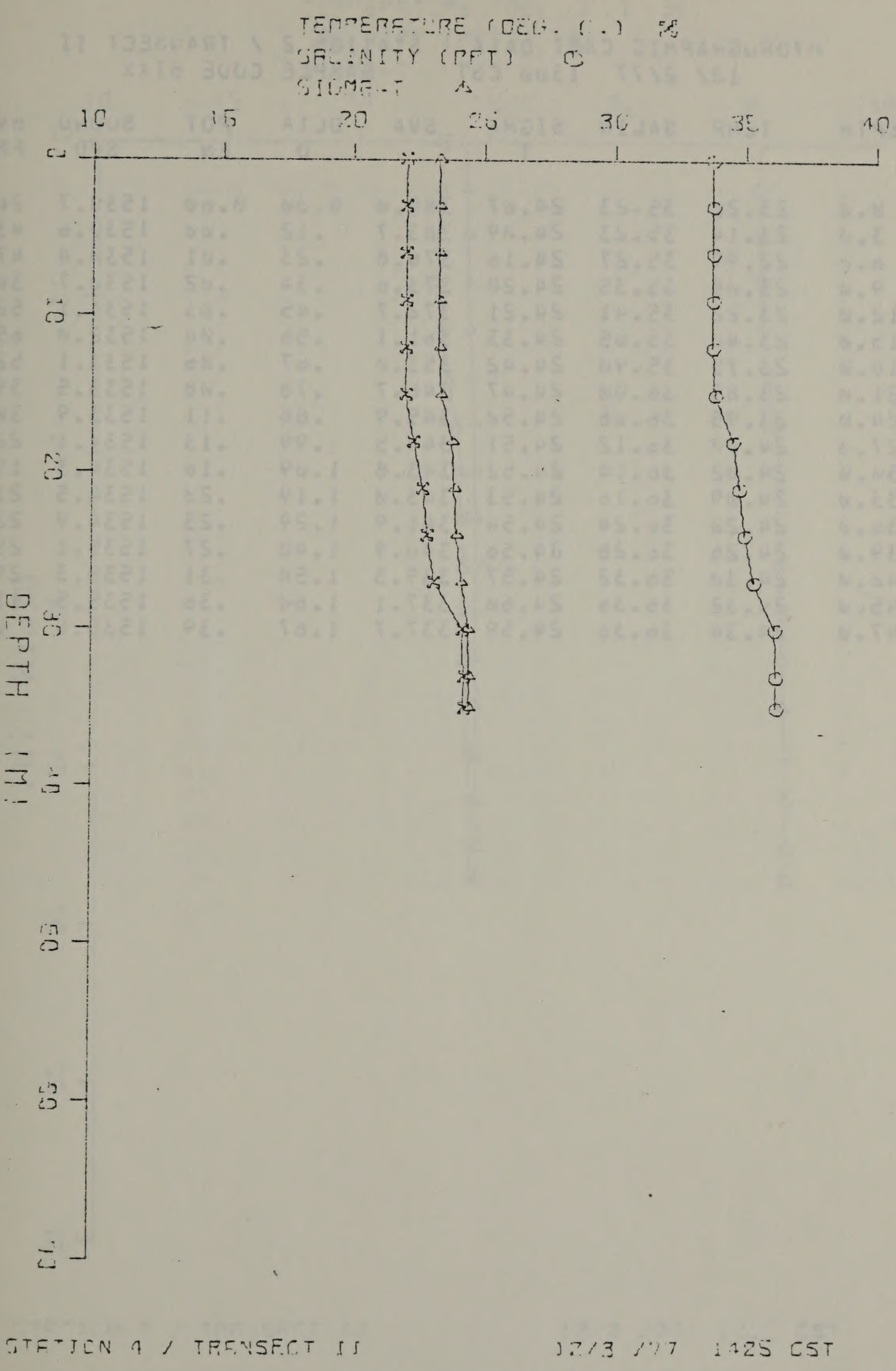
```
            HYDROGRAPHIC CAST DATA   STATION 4 / TRANSECT II
                 12/ 3/77   1425 CST     SAMPLE CODE BUBK

DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA     POT    SOUND   BV
                            T                 D      EN      SPD   FRQ

  0.0     22.00   33.71   23.26   462.3   0.00    0.00   1526.0    0.0
  3.0     22.00   33.71   23.26   462.7    .14     .00   1526.0    0.0
  6.0     22.00   33.71   23.26   462.8    .28     .01   1526.1    0.0
  9.0     22.00   33.71   23.26   462.9    .42     .02   1526.1    0.0
 12.0     22.00   33.71   23.26   463.0    .56     .03   1526.1   39.0
 15.0     21.98   33.80   23.34   456.1    .69     .05   1526.3  103.0
 18.0     22.30   34.50   23.78   414.1    .82     .08   1527.9  104.7
 21.0     22.65   34.75   23.87   405.6    .95     .10   1529.2   62.2
 24.0     22.84   34.95   23.96   396.5   1.07     .13   1529.9   76.6
 27.0     23.11   35.30   24.15   378.8   1.18     .16   1531.0   99.5
 30.0     24.20   36.11   24.44   351.0   1.29     .19   1534.7   80.2
 33.0     24.26   36.16   24.46   349.3   1.40     .22   1534.9   25.4
 35.0     24.26   36.17   24.47   348.6   1.47     .25   1535.0   21.6
```



STATION 1 / TRANSECT II   12/3 /77 1010 CST

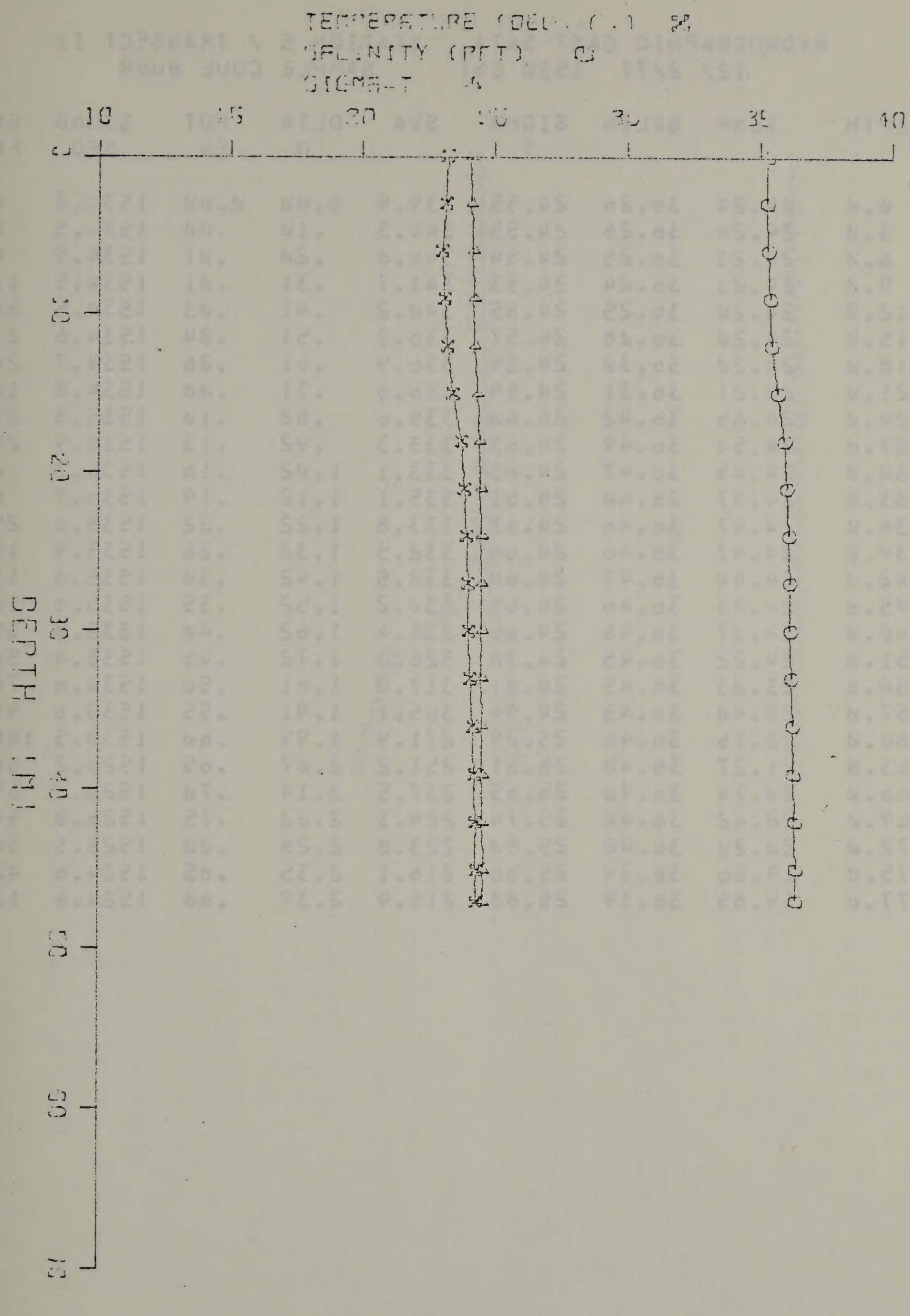


STATION 4 / TRANSECT II 12/3 /77 1425 CST

```
          HYDROGRAPHIC CAST DATA   STATION 2 / TRANSECT II
                12/ 2/77  1300 CST      SAMPLE CODE BTXX

DEPTH     TEMP  SALIN  SIGMA   SVA   DLTA   POT   SOUND   BV
                         T              D    EN     SPD   FRQ


  0.0    23.20  35.23  24.07  385.0  0.00  0.00  1530.7  26.8
  3.0    23.14  35.23  24.09  383.7   .12   .00  1530.6  43.3
  6.0    22.99  35.27  24.16  376.8   .23   .01  1530.4  47.2
  9.0    23.08  35.35  24.20  373.6   .34   .02  1530.7  30.6
 12.0    23.20  35.41  24.21  372.7   .45   .03  1531.1  52.6
 15.0    23.40  35.65  24.33  361.1   .56   .04  1532.0  65.8
 18.0    23.75  35.90  24.42  353.0   .67   .06  1533.1  52.3
 21.0    23.85  36.00  24.47  348.7   .78   .08  1533.5  39.8
 24.0    23.95  36.08  24.50  345.9   .88   .11  1533.9  30.9
 27.0    24.00  36.12  24.51  344.5   .99   .13  1534.1  22.5
 30.0    24.02  36.14  24.52  343.8  1.09   .16  1534.3  19.6
 33.0    24.09  36.18  24.53  343.0  1.19   .20  1534.5  21.3
 36.0    24.20  36.24  24.54  341.9  1.29   .23  1534.9  22.6
 39.0    24.26  36.28  24.56  340.9  1.40   .27  1535.1  25.1
 42.0    24.30  36.32  24.57  339.3  1.50   .31  1535.3  29.6
 45.0    24.32  36.36  24.60  337.1  1.60   .36  1535.5  17.7
 47.0    24.34  36.36  24.59  337.7  1.67   .39  1535.6   0.0
```

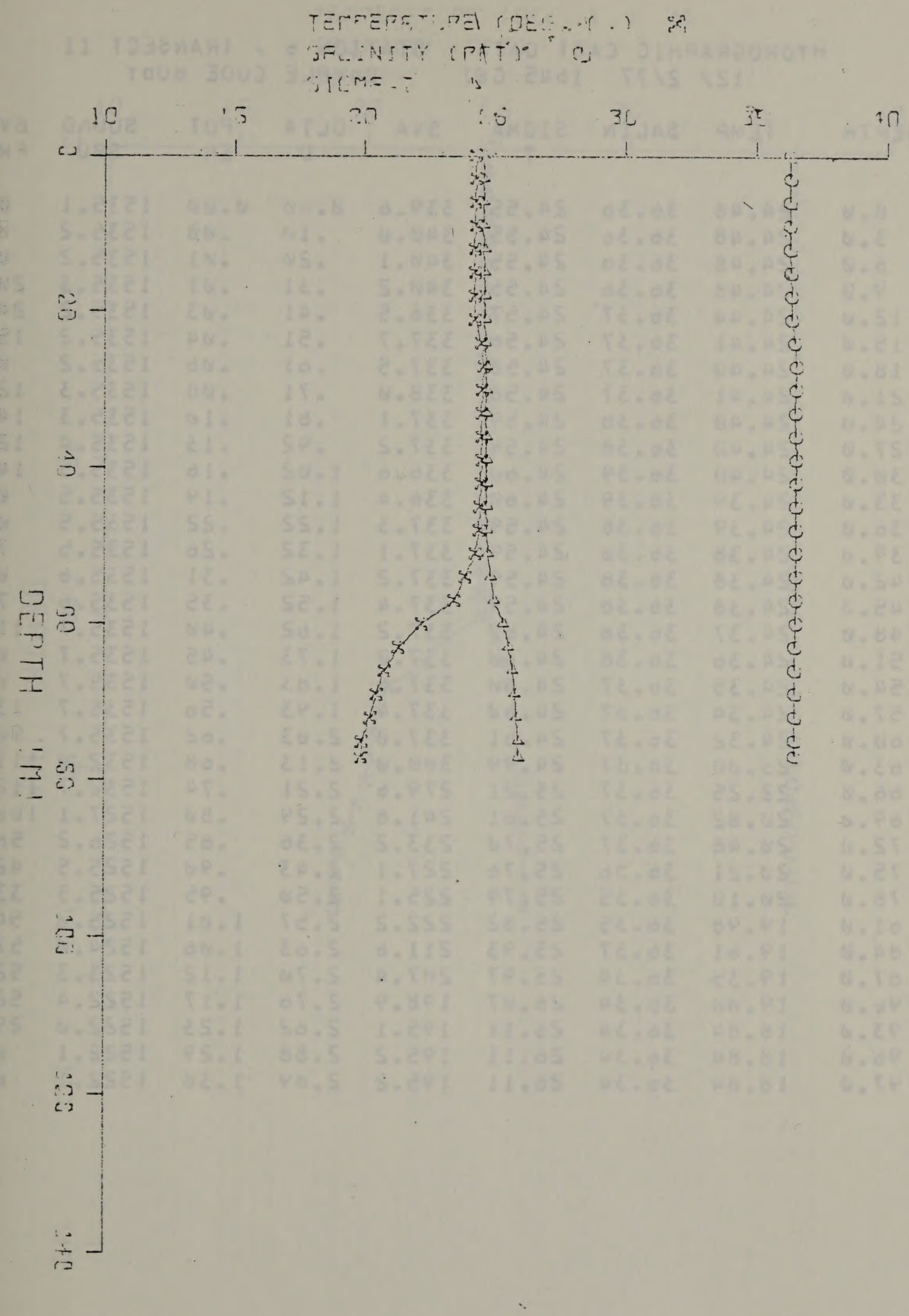


STATION 7 / TRANSECT II 12/2 /77 [illegible] CST

```
          HYDROGRAPHIC CAST DATA   STATION 5 / TRANSECT II
               12/ 2/77  1530 CST     SAMPLE CODE 806R

DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA    POT    SOUND    BV
                            T                D      EN      SPD    FRQ

  0.0     24.24   36.26   24.55   339.9    0.00   0.00   1534.4    0.0
  3.0     24.24   36.26   24.55   340.3     .10    .00   1534.5    0.0
  6.0     24.23   36.25   24.54   340.8     .20    .01   1534.5    0.0
  9.0     24.23   36.24   24.53   341.7     .31    .01   1534.5   13.6
 12.0     24.20   36.25   24.55   340.2     .41    .03   1534.5   28.4
 15.0     24.20   36.28   24.57   338.2     .51    .04   1534.6   27.9
 18.0     24.20   36.30   24.59   336.9     .61    .06   1534.7   20.2
 21.0     24.21   36.31   24.59   336.6     .71    .08   1534.8   18.0
 24.0     24.45   36.42   24.60   335.6     .82    .10   1535.5   27.6
 27.0     24.54   36.49   24.63   333.3     .92    .13   1535.9   24.4
 30.0     24.48   36.47   24.63   333.1    1.02    .16   1535.7    0.0
 33.0     24.47   36.44   24.61   335.1    1.12    .19   1535.7    0.0
 36.0     24.47   36.46   24.63   333.8    1.22    .22   1535.8   25.0
 39.0     24.47   36.46   24.64   332.5    1.32    .26   1535.9   18.5
 42.0     24.44   36.47   24.64   332.5    1.42    .30   1535.8   11.1
 45.0     24.40   36.46   24.65   332.2    1.52    .35   1535.8   16.7
 48.0     24.37   36.46   24.66   331.4    1.62    .40   1535.8   30.9
 51.0     24.22   36.45   24.70   328.0    1.72    .45   1535.4   56.3
 54.0     23.83   36.45   24.81   317.0    1.81    .50   1534.6   70.7
 57.0     23.40   36.45   24.94   305.1    1.91    .55   1533.6   99.1
 60.0     22.16   36.44   25.29   271.9    1.99    .60   1530.5  108.1
 63.0     21.27   36.40   25.51   251.2    2.07    .65   1528.2   86.5
 66.0     20.74   36.40   25.65   237.5    2.14    .70   1526.8   69.0
 69.0     20.42   36.40   25.74   229.3    2.22    .75   1526.0   54.7
 72.0     20.20   36.40   25.80   223.8    2.28    .80   1525.5   54.0
 75.0     19.86   36.39   25.88   216.1    2.35    .85   1524.6   42.2
 77.0     19.85   36.39   25.88   215.9    2.39    .88   1524.6   12.8
```



STATION 5 / TRANSECT II 12/2 /77 1530 CST

```
           HYDROGRAPHIC CAST DATA   STATION 6 , TRANSECT II
                12/ 2/77  1645 CST     SAMPLE CODE BUBY

DEPTH      TEMP   SALIN   SIGMA     SVA    DLTA    POT    SOUND    BV
                            T                D      EN     SPD    FRQ

  0.0     24.48   36.36   24.55   339.6    0.00   0.00   1535.1    0.0
  3.0     24.48   36.36   24.55   340.0     .10    .00   1535.2    0.0
  6.0     24.48   36.36   24.55   340.1     .20    .01   1535.2    0.0
  9.0     24.48   36.36   24.55   340.2     .31    .01   1535.3   20.1
 12.0     24.44   36.37   24.57   338.5     .41    .03   1535.2   24.3
 15.0     24.41   36.37   24.58   337.7     .51    .04   1535.2   15.7
 18.0     24.40   36.37   24.58   337.5     .61    .06   1535.2    0.0
 21.0     24.41   36.37   24.58   338.0     .71    .08   1535.3   12.5
 24.0     24.40   36.38   24.59   337.1     .81    .10   1535.3   14.8
 27.0     24.40   36.38   24.59   337.2     .92    .13   1535.4   12.5
 30.0     24.40   36.39   24.60   336.6    1.02    .16   1535.5   14.8
 33.0     24.39   36.39   24.60   336.4    1.12    .19   1535.5    0.0
 36.0     24.39   36.38   24.59   337.3    1.22    .22   1535.5    0.0
 39.0     24.38   36.38   24.59   337.1    1.32    .26   1535.5    7.9
 42.0     24.38   36.38   24.59   337.2    1.42    .31   1535.6    0.0
 45.0     24.38   36.38   24.59   337.4    1.52    .35   1535.6    7.9
 48.0     24.37   36.38   24.60   337.2    1.62    .40   1535.7   11.1
 51.0     24.36   36.38   24.60   337.0    1.73    .45   1535.7    0.0
 54.0     24.35   36.37   24.60   337.6    1.83    .50   1535.7    0.0
 57.0     24.34   36.37   24.60   337.4    1.93    .56   1535.7   13.6
 60.0     24.32   36.37   24.61   337.0    2.03    .62   1535.7   90.3
 63.0     23.00   36.37   24.99   300.0    2.13    .68   1532.6  111.6
 66.0     22.25   36.37   25.21   279.6    2.21    .74   1530.7  112.3
 69.0     20.82   36.37   25.61   241.8    2.29    .80   1527.1  100.4
 72.0     20.48   36.37   25.70   233.2    2.36    .85   1526.2   56.8
 75.0     20.21   36.36   25.76   227.1    2.43    .90   1525.5   42.2
 78.0     20.10   36.35   25.79   225.1    2.50    .95   1525.3   33.2
 81.0     19.98   36.35   25.82   222.2    2.57   1.01   1525.0   54.6
 84.0     19.61   36.37   25.93   211.6    2.63   1.06   1524.0   57.0
 87.0     19.35   36.34   25.97   207.4    2.70   1.12   1523.3   52.8
 90.0     19.00   36.34   26.07   198.9    2.76   1.17   1522.4   52.0
 93.0     18.84   36.34   26.11   195.1    2.82   1.23   1522.0   29.1
 96.0     18.84   36.34   26.11   195.2    2.88   1.29   1522.1    0.0
 97.0     18.84   36.34   26.11   195.2    2.89   1.30   1522.1    0.0
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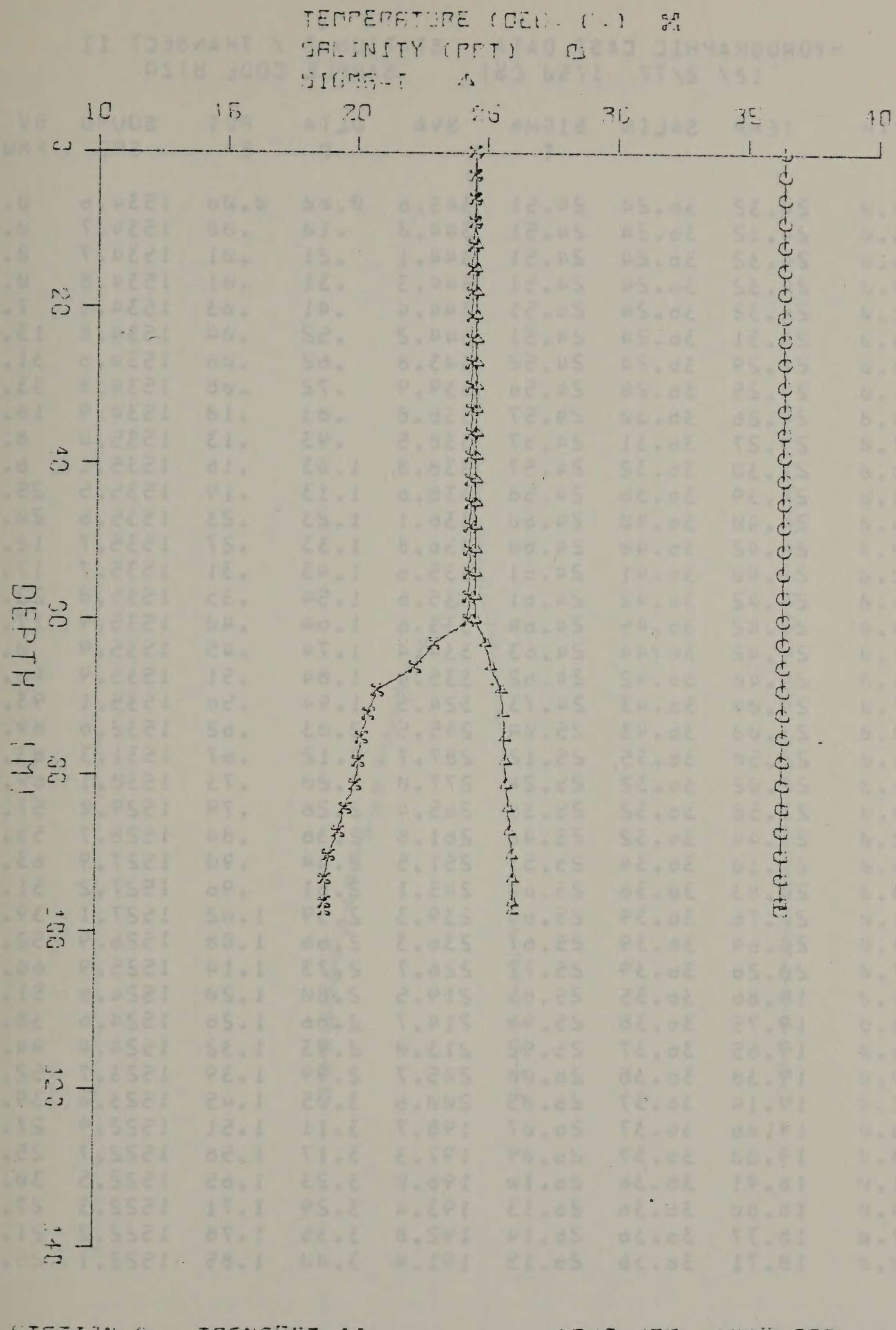
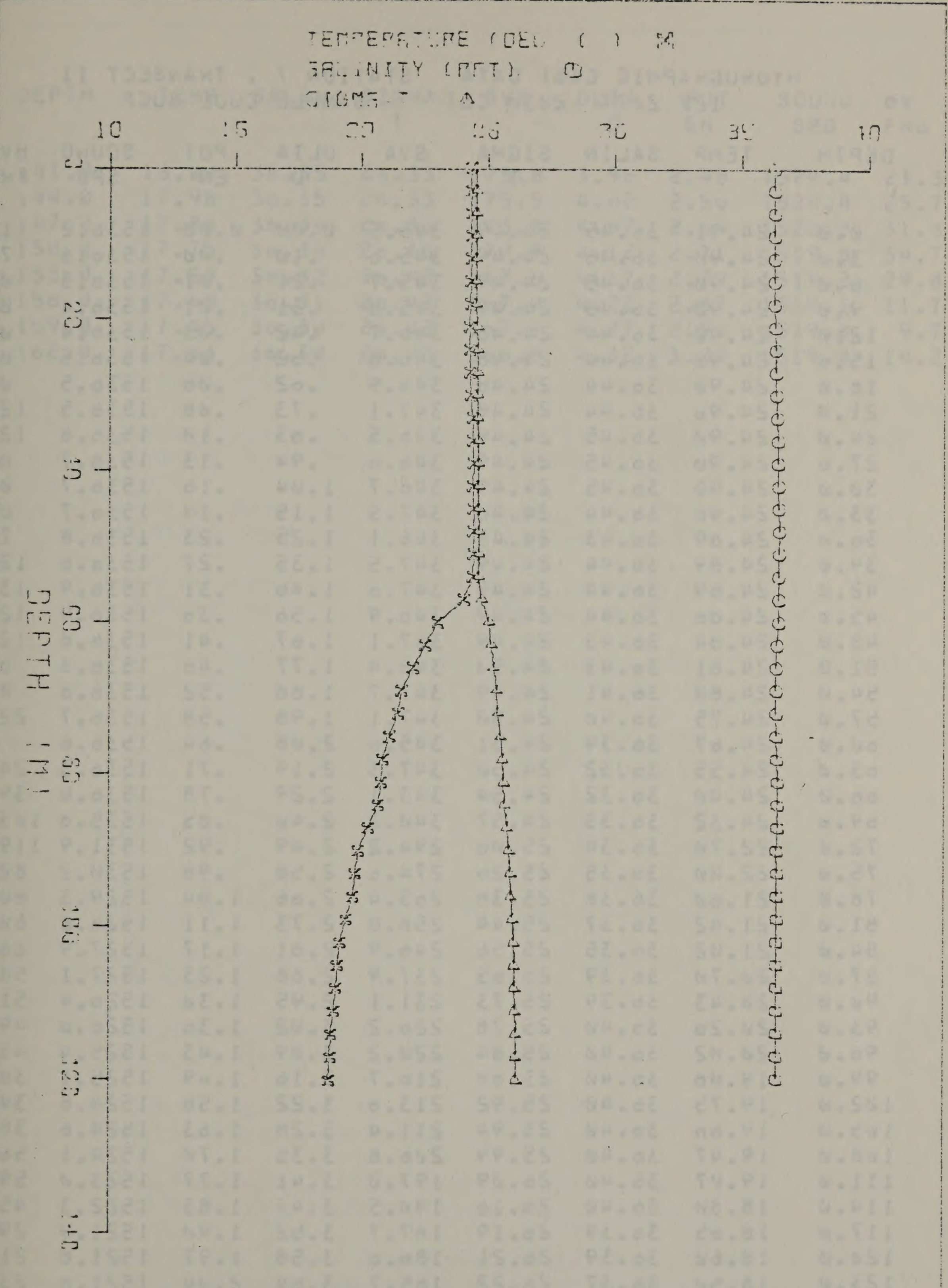


STATION 6 , TRANSECT II 12/2 /77 1696 CST

HYDROGRAPHIC CAST DATA STATION 3 / TRANSECT II
12/ 2/77 1750 CST SAMPLE CODE BTZQ

DEPTH	TEMP	SALIN	SIGMA T	SVA	DLTA D	POT EN	SOUND SPD	BV FRQ
0.0	24.32	36.24	24.51	343.6	0.00	0.00	1534.6	0.0
3.0	24.32	36.24	24.51	344.0	.10	.00	1534.7	0.0
6.0	24.32	36.24	24.51	344.1	.21	.01	1534.7	0.0
9.0	24.32	36.24	24.51	344.3	.31	.01	1534.8	0.0
12.0	24.32	36.24	24.51	344.4	.41	.03	1534.8	7.9
15.0	24.31	36.24	24.51	344.2	.52	.04	1534.8	13.6
18.0	24.29	36.24	24.52	343.8	.62	.06	1534.8	31.5
21.0	24.25	36.28	24.56	339.9	.72	.08	1534.8	33.5
24.0	24.26	36.30	24.57	338.8	.83	.10	1534.9	18.6
27.0	24.27	36.31	24.57	338.5	.93	.13	1535.0	8.0
30.0	24.30	36.32	24.57	338.8	1.03	.16	1535.1	6.1
33.0	24.39	36.36	24.58	338.6	1.13	.19	1535.5	25.1
36.0	24.40	36.40	24.60	336.1	1.23	.23	1535.6	20.9
39.0	24.42	36.40	24.60	336.8	1.33	.27	1535.7	12.5
42.0	24.40	36.41	24.61	335.6	1.43	.31	1535.7	17.7
45.0	24.42	36.42	24.61	335.6	1.54	.35	1535.8	22.4
48.0	24.42	36.45	24.64	333.6	1.64	.40	1535.9	17.7
51.0	24.42	36.44	24.63	334.4	1.74	.45	1535.9	0.0
54.0	24.40	36.42	24.62	335.4	1.84	.51	1535.9	46.8
57.0	24.04	36.43	24.73	324.5	1.94	.56	1535.1	93.1
60.0	23.00	36.43	25.04	295.5	2.03	.62	1532.6	89.5
63.0	22.50	36.35	25.12	287.7	2.12	.67	1531.3	63.6
66.0	22.02	36.32	25.24	277.0	2.20	.73	1530.1	69.8
69.0	21.58	36.32	25.36	265.4	2.28	.79	1529.0	57.8
72.0	21.44	36.32	25.40	261.8	2.36	.84	1528.7	55.2
75.0	21.10	36.34	25.51	251.5	2.44	.90	1527.9	63.8
78.0	20.83	36.36	25.60	243.1	2.51	.96	1527.2	51.9
81.0	20.76	36.39	25.64	239.3	2.59	1.02	1527.1	39.1
84.0	20.64	36.39	25.67	236.3	2.66	1.08	1526.9	52.7
87.0	20.26	36.39	25.77	226.7	2.73	1.14	1525.9	60.6
90.0	19.86	36.35	25.85	219.5	2.80	1.20	1524.8	51.3
93.0	19.75	36.38	25.90	214.7	2.86	1.26	1524.6	38.1
96.0	19.65	36.37	25.92	213.0	2.93	1.32	1524.4	44.7
99.0	19.38	36.38	26.00	205.7	2.99	1.39	1523.7	52.3
102.0	19.14	36.37	26.05	200.6	3.05	1.45	1523.0	39.3
105.0	19.06	36.37	26.07	198.7	3.11	1.51	1522.9	27.2
108.0	19.03	36.37	26.09	197.3	3.17	1.58	1522.7	25.2
111.0	18.91	36.36	26.10	196.0	3.23	1.65	1522.5	30.0
114.0	18.80	36.36	26.13	193.4	3.29	1.71	1522.3	27.1
117.0	18.77	36.36	26.14	192.8	3.35	1.78	1522.2	21.7
120.0	18.71	36.36	26.15	191.4	3.40	1.85	1522.1	25.1



STATION 3 TRANSECT II 17/2/77 1730 CST

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          HYDROGRAPHIC CAST DATA   STATION 7 , TRANSECT II
               12/ 2/77  2030 CST      SAMPLE CODE BUCF

 DEPTH     TEMP   SALIN   SIGMA     SVA    DLTA    POT    SOUND    BV
                            T               D      EN      SPD    FRQ

   0.0    24.91   36.45   24.49   345.5   0.00   0.00   1536.2   11.2
   3.0    24.90   36.45   24.49   345.6    .10    .00   1536.3    7.9
   6.0    24.90   36.45   24.49   345.7    .21    .01   1536.3    0.0
   9.0    24.90   36.45   24.49   345.8    .31    .01   1536.4    0.0
  12.0    24.90   36.44   24.48   346.7    .42    .03   1536.4    0.0
  15.0    24.90   36.44   24.48   346.8    .52    .04   1536.5    0.0
  18.0    24.90   36.44   24.48   346.9    .62    .06   1536.5    0.0
  21.0    24.90   36.44   24.48   347.1    .73    .08   1536.5   12.5
  24.0    24.90   36.45   24.49   346.5    .83    .10   1536.6   12.5
  27.0    24.90   36.45   24.49   346.6    .94    .13   1536.7    0.0
  30.0    24.90   36.45   24.49   346.7   1.04    .16   1536.7    0.0
  33.0    24.90   36.44   24.48   347.5   1.15    .19   1536.7    0.0
  36.0    24.89   36.43   24.48   346.1   1.25    .23   1536.8    7.9
  39.0    24.89   36.44   24.49   347.5   1.35    .27   1536.8   12.5
  42.0    24.89   36.44   24.49   347.6   1.46    .31   1536.9   13.7
  45.0    24.86   36.44   24.49   346.9   1.56    .36   1536.9   12.6
  48.0    24.84   36.43   24.49   347.1   1.67    .41   1536.8   12.6
  51.0    24.81   36.43   24.50   346.4   1.77    .46   1536.8    0.0
  54.0    24.80   36.41   24.49   347.7   1.88    .52   1536.8    0.0
  57.0    24.75   36.40   24.50   347.1   1.98    .58   1536.7   22.4
  60.0    24.67   36.39   24.51   345.6   2.08    .64   1536.6     .9
  63.0    24.55   36.32   24.50   347.3   2.19    .71   1536.3   24.3
  66.0    24.40   36.32   24.54   343.1   2.29    .78   1536.0   39.8
  69.0    24.32   36.33   24.57   340.2   2.40    .85   1535.8  103.0
  72.0    22.70   36.34   25.06   294.2   2.49    .92   1531.9  119.2
  75.0    22.00   36.35   25.26   274.6   2.58    .98   1530.2   82.0
  78.0    21.60   36.36   25.38   263.4   2.66   1.04   1529.3   60.4
  81.0    21.42   36.37   25.44   258.0   2.73   1.11   1528.8   60.1
  84.0    21.02   36.38   25.56   246.9   2.81   1.17   1527.9   66.2
  87.0    20.70   36.39   25.65   237.9   2.88   1.23   1527.1   58.8
  90.0    20.43   36.39   25.73   231.1   2.95   1.30   1526.4   51.0
  93.0    20.26   36.40   25.78   226.2   3.02   1.36   1526.0   49.1
  96.0    20.02   36.40   25.84   220.2   3.09   1.43   1525.4   45.6
  99.0    19.88   36.40   25.88   216.7   3.16   1.49   1525.1   38.3
 102.0    19.75   36.40   25.92   213.6   3.22   1.56   1524.8   34.5
 105.0    19.66   36.40   25.94   211.4   3.28   1.63   1524.6   38.9
 108.0    19.47   36.40   25.99   206.8   3.35   1.70   1524.1   56.2
 111.0    19.07   36.40   26.09   197.0   3.41   1.77   1523.0   59.7
 114.0    18.80   36.40   26.16   190.5   3.47   1.83   1522.3   45.3
 117.0    18.65   36.39   26.19   187.7   3.52   1.90   1521.9   29.8
 120.0    18.60   36.39   26.21   186.6   3.58   1.97   1521.8   21.6
 123.0    18.50   36.37   26.22   185.7   3.64   2.04   1521.6   23.9
 126.0    18.43   36.37   26.23   184.1   3.69   2.11   1521.4   27.9
 129.0    18.35   36.37   26.25   182.3   3.75   2.18   1521.2   26.9
 132.0    18.29   36.37   26.27   181.0   3.80   2.25   1521.1   21.6
 135.0    18.26   36.37   26.28   180.4   3.86   2.33   1521.1   28.7
 138.0    18.13   36.37   26.31   177.4   3.91   2.40   1520.8   32.0
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```
DEPTH     TEMP   SALIN   SIGMA    SVA    DLTA    POT    SOUND    BV
                           T               D      EN     SPD    FRQ

141.0    18.00   36.35   26.33   175.8   3.96   2.48   1520.4   21.3
144.0    17.98   36.35   26.33   175.5   4.02   2.56   1520.4   25.7
147.0    17.84   36.34   26.36   173.0   4.07   2.64   1520.0   31.8
150.0    17.75   36.34   26.38   170.9   4.12   2.71   1519.8   34.7
153.0    17.54   36.32   26.42   167.6   4.17   2.79   1519.2   29.8
156.0    17.48   36.31   26.42   167.0   4.22   2.87   1519.1   11.7
159.0    17.45   36.30   26.42   167.1   4.27   2.96   1519.0    9.7
162.0    17.43   36.30   26.43   166.8   4.32   3.04   1519.0   14.2
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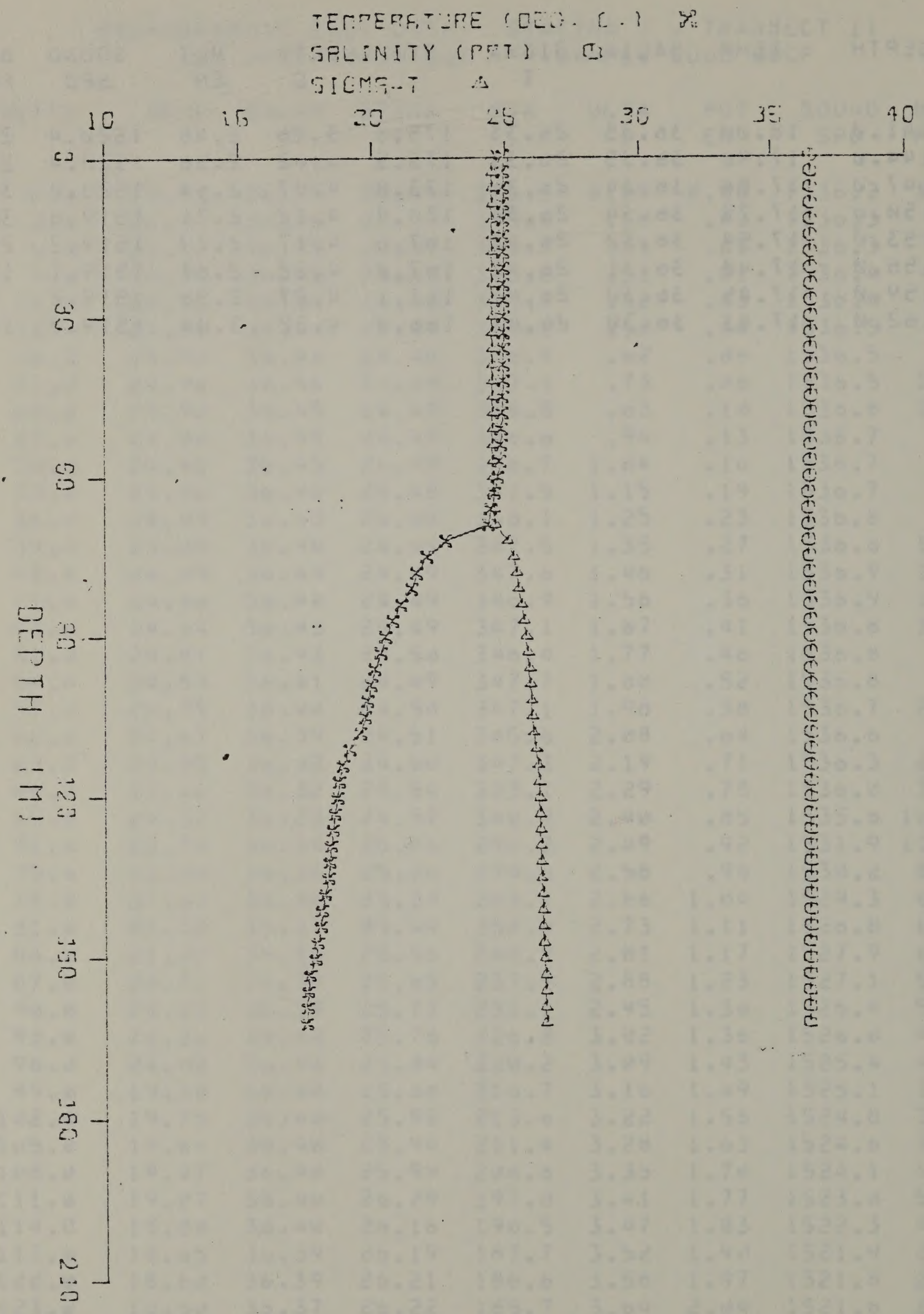

STATION 7 TRANSECT II 12/2 /77 2030 CST

APPENDIX B

LOW-MOLECULAR-WEIGHT HYDROCARBON AND HYDROGRAPHIC PROJECT

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TABLE 1.

DISSOLVED OXYGEN AND NUTRIENTS FOUND IN THE STOCS MONITORING STUDY DURING THE WINTER CRUISE IN 1977.

Station	Depth	Temp. (°C)	Salinity (°/oo)	Silicate (μm)	Phosphate (μm)	Nitrate (μm)	Oxygen (ml/ℓ)
1/I	0 m	9.62	31.229	4.3 BAAF	0.49	0.3	6.95 BAAC
	0 m	-	-	4.4	0.51	<0.1	6.94
	0 m	-	-	4.3	0.48	<0.1	6.96
	2 m (½PZ)	9.74	31.163	4.5 BAAG	0.47	<0.1	6.88 BAAD
	2 m (½PZ)	-	-	-	-	-	6.89
	2 m (½PZ)	-	-	-	-	-	6.88
	15 m	12.81	34.450	1.6 BAAH	0.27	0.1	5.86 BAAE
	15 m	-	-	-	-	-	5.86
	15 m	-	-	-	-	-	5.87
2/I	0 m	17.44	36.242	1.4 BABY	0.02	0.4	5.42 BABV
	0 m	-	-	-	-	-	5.43
	0 m	-	-	-	-	-	5.43
	14 m (½PZ)	17.43	36.246	1.4 BABZ	0.01	0.5	5.46 BABW
	14 m (½PZ)	-	-	-	-	-	5.45
	14 m (½PZ)	-	-	-	-	-	5.45
	20 m	17.42	36.246	1.4	0.10	0.4	5.47
	30 m	17.32	36.248	1.2	0.02	0.3	5.47
	40 m	17.24	36.265	5.2 BACA	0.18	0.4	5.42 BABX
	40 m	-	-	5.2	0.07	0.4	5.41
	40 m	-	-	5.2	0.12	0.5	5.44
3/I	0 m	18.57	36.287	0.9 BADT	0.01	1.1	5.50 5.49 BADQ
	10 m (½PZ)	18.59	36.286	0.9 BADV	0.01	0.7	5.63 5.63 BADR
	30 m	18.56	36.290	0.9	0.10	1.2	5.48
	50 m	18.32	36.265	0.6	0.10	0.8	5.53
	70 m	18.12	36.258	0.7	0.11	0.9	5.42
	90 m	17.10	36.230	1.2	0.23	1.8	5.25

TABLE 1. CONT'D

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
3/I	110 m	16.46	36.161	3.6 BADV	1.88	6.6	5.61 5.61 BADS
1/II	0 m	12.66	33.788	2.3 BAGD	0.56	<0.1	6.06 6.05 GAGA
	3 m (½PZ)	12.67	33.783	2.3 BAGE	0.35	<0.1	5.80 5.79 BAGB
	3 m (½PZ)	-	-	2.3	0.33	<0.1	-
	3 m (½PZ)	-	-	2.3	0.34	0.2	-
	20 m	13.60	34.537	2.2 BAGF	1.34	0.4	5.32 5.33 BAGC
2/II	0 m	16.48	35.899	1.4 BAIN	0.07	0.3	5.92 5.92 BAIR
	8 m (½PZ)	16.50	35.899	1.6 BAIO	0.22	<0.1	6.17 6.16 BAIL
	20 m	16.50	35.900	1.6	0.05	<0.1	5.82
	30 m	16.49	35.900	1.4	0.10	<0.1	5.81
	40 m	16.48	35.894	1.6	0.10	0.1	5.76
	45 m	16.48	35.893	1.6 BAIP	0.23	0.1	5.83 5.82 BAIM
	45 m	-	-	1.6	0.12	0.4	-
	45 m	-	-	1.6	0.24	0.1	-
3/II	0 m	18.66	36.245	0.5 BAKO	0.05	0.3	5.55 5.54 BAKL
	0 m	-	-	0.5	0.07	<0.1	-
	0 m	-	-	0.5	0.12	0.1	-
	9 m (½PZ)	18.67	36.247	0.5 BAKP	0.12	<0.1	5.51 5.52 BAKM
	30 m	18.43	36.237	0.2	0.01	0.1	5.56
	50 m	17.96	36.216	0.2	0.02	0.1	5.57
	75 m	17.44	36.225	0.5	0.17	0.4	5.38
	100 m	16.89	36.158	2.7	0.21	4.5	4.83
	125 m	16.45	36.164	4.3 BAKQ	0.41	7.7	4.19 4.18 BAKN
4/II	0 m	-	-	-	-	-	5.62 5.62 BAMR
	4 m	-	-	-	-	-	5.66 5.67 BAMS
	30 m	-	-	-	-	-	5.53 5.53 BAMT

TABLE 1. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
5/II	0 m	-	-	-	-	-	5.39 5.39 BANB
	11 m	-	-	-	-	-	5.46 5.47 BANC
	75 m	-	-	-	-	-	5.42 5.41 BAND
6/II	0 m	-	-	-	-	-	5.76 BANL
	0 m	-	-	-	-	-	5.74
	0 m	-	-	-	-	-	5.73
	8 m (½PZ)	-	-	-	-	-	5.76 BANM
	8 m (½PZ)	-	-	-	-	-	5.77
	8 m (½PZ)	-	-	-	-	-	5.75
	90 m	-	-	-	-	-	4.48 BANO
	90 m	-	-	-	-	-	4.49
	90 m	-	-	-	-	-	4.48
1/III	0 m	12.42	33.739	1.6 BAQF	0.32	<0.1	6.61 BAQG
	0 m	-	-	-	-	-	6.62
	0 m	-	-	-	-	-	6.62
	3 m (½PZ)	12.40	33.729	1.6 BAQG	0.28	<0.1	6.59 BAQD
	3 m (½PZ)	-	-	1.4	0.28	<0.1	6.58
	3 m (¼PZ)	-	-	1.6	0.27	<0.1	6.58
	10 m	12.99	34.139	1.4	0.27	<0.1	6.11
	20 m	13.81	34.878	1.1 BAQH	0.17	0.2	5.93 BAQE
	20 m	-	-	0.9	0.16	0.5	5.94
	20 m	-	-	0.9	0.17	0.5	5.92
2/III	0 m	17.88	36.184	1.3	0.08	1.6	5.44 5.44 BARV
	0 m	-	-	1.3	0.13	1.5	-
	0 m	-	-	1.2	0.15	1.6	-
	14 m (½PZ)	17.84	36.181	1.2	0.12	0.7	5.45 5.46 BARW
	14 m (½PZ)	-	-	1.2	0.10	0.6	-

TABLE 1. CONT'D

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
2/III	14 m	-	-	1.2	0.10	0.8	-
	30 m	17.62	36.167	1.2	0.15	0.9	5.46
	40 m	17.54	36.169	1.2	0.17	1.1	5.46
	50 m	17.48	36.166	1.2	0.10	1.0	5.42
	60 m	17.49	36.160	1.4 BASA	0.13	1.0	5.41 5.44 BARX
	60 m	-	-	1.3	0.12	1.0	-
	60 m	-	-	1.3	0.13	1.0	-
3/III	0 m	18.62	36.235	1.6 BATS	0.12	2.7	5.27 5.27 BATP
	0 m	-	-	1.4	0.12	2.5	-
	0 m	-	-	1.4	0.16	2.5	-
	25 m (½PZ)	18.62	36.234	1.4 BATT	0.12	2.6	5.24 5.25 BATQ
	25 m (½PZ)	-	-	1.4	0.12	2.6	-
	25 m (½PZ)	-	-	1.4	0.16	2.5	-
	40 m	18.63	36.233	1.6	0.39	2.5	5.24
	50 m	18.62	36.232	1.4	0.12	2.5	5.27
	60 m	18.64	36.236	2.3	0.12	2.5	5.16
	80 m	18.18	36.143	1.6	0.12	2.5	5.20
	100 m	17.18	36.088	1.7 BATU	0.13	1.4	5.37 5.36 BATR
1/IV	0 m	12.64	33.719	2.2 BAVY	0.39	0.3	6.35 BAVV
	0 m	-	-	2.3	0.39	0.4	6.34
	0 m	-	-	2.3	0.35	0.3	6.35
	2.5 m (½PZ)	12.54	33.719	2.3	0.34	0.4	6.35 BAVW
	2.5 m (½PZ)	-	-	2.3	0.49	0.5	6.36
	2.5 m (½PZ)	-	-	2.3	0.46	0.4	6.35
	25 m	13.06	34.210	2.2 BAWA	0.32	0.5	6.00 BAVX
	25 m	-	-	2.2	0.36	0.5	5.99
	25 m	-	-	2.2	0.33	0.5	6.00

TABLE 1. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/°°)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
2/IV	0 m	17.45	36.096	1.4 BAXV	0.09	0.9	5.59 BAXS
	0 m	-	-	1.4	0.09	0.9	5.59
	0 m	-	-	1.4	0.09	1.0	5.62
	11 m (½PZ)	17.36	36.058	1.6 BAXW	0.09	0.9	5.60 BAXT
	11 m (½PZ)	-	-	1.6	0.14	0.8	5.61
	11 m (½PZ)	-	-	1.6	0.08	0.8	5.60
	20 m	17.21	36.030	-	-	-	5.65
	30 m	16.79	35.939	1.3	0.08	0.7	5.71
	40 m	16.43	35.816	-	-	-	5.63
	45 m	16.43	35.917	1.6 BAXX	0.17	0.5	5.60 BAXV
	45 m	-	-	-	-	-	5.63
	45 m	-	-	-	-	-	5.61
3/IV	0 m	19.16	36.213	1.6 BAZP	0.11	1.9	5.33 5.33 BAZM
	10 m	19.16	36.254	1.6	0.07	2.0	5.18
	20 m (½PZ)	19.15	36.266	1.6 BAZQ	0.07	1.8	5.16 5.17 BAZN
	30 m	19.16	36.245	1.6	0.12	1.8	5.09
	40 m	19.14	36.241	1.6	0.24	1.6	5.06
	50 m	19.14	36.240	1.6	0.10	-	5.09
	60 m	19.13	36.325	1.6	0.27	1.7	5.12
	70 m	19.12	36.232	1.6	0.19	1.6	4.99
	80 m	18.38	36.152	1.6	0.08	1.1	5.13
	85 m	18.09	36.126	1.6 BAZR	0.07	0.8	5.27 5.25 BAZO
	85 m	-	-	1.6	0.10	0.7	-
	85 m	-	-	1.6	0.07	0.7	-
2/SB	0 m	-	-	1.6 BAQB	0.21	0.7	5.30 5.31 BANY
	0 m	-	-	1.6	0.22	0.6	-
	0 m	-	-	1.7	0.35	0.5	-
	11 m (½PZ)	-	-	1.6 BAQC	0.22	0.8	5.36 5.37 BANZ

TABLE 1. CONT'D

Station	Depth	Temp. (°C)	Salinity (°/oo)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
2/SB	70 m	-	-	1.6 BAQD	0.64	0.2	5.38 5.39 BADA
	70 m	-	-	1.6	0.49	0.2	-
	70 m	-	-	1.6	0.63	0.2	-
2/HR	0 m	-	-	1.8 BAPF	0.09	0.9	5.29 BAPC
	0 m	-	-	-	-	-	5.29
	0 m	-	-	-	-	-	5.30
	13 m	-	-	1.7 BAPG	0.17	0.7	5.29 BAPD
	13 m	-	-	1.6	0.10	0.7	5.29
	13 m	-	-	1.7	0.12	0.7	5.28
	70 m	-	-	1.9 BAPH	0.40	0.4	5.39 BAPE
	70 m	-	-	-	-	-	5.41
	70 m	-	-	-	-	-	5.40

TABLE 2.

DISSOLVED OXYGEN AND NUTRIENTS FOUND IN THE STOCS MONITORING STUDY DURING THE MARCH CRUISE IN 1977.

Station	Depth	Temp. (°C)	Salinity (°/oo)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
1/II	0 m	16.10	32.683	3.7 BDKC	0.32	0.1	6.00 BDJZ
	0 m	-	-	-	-	-	5.99
	0 m	-	-	-	-	-	6.00
	3 m (½PZ)	16.24	32.773	3.0 BDKD	0.32	<0.1	5.96 BDKA
	3 m (½PZ)	-	-	-	-	-	5.95
	3 m (½PZ)	-	-	-	-	-	5.95
	19 m	14.60	32.865	4.7 BDKE	0.63	0.2	5.70 BDKB
	19 m	-	-	-	-	-	5.71
	19 m	-	-	-	-	-	5.70
2/II	0 m	16.83	34.932	1.1 BDLL	0.24	<0.1	5.64 BDLI
	0 m	-	-	-	-	-	5.64
	0 m	-	-	-	-	-	5.63
	21 m (½PZ)	16.76	35.825	1.1 BDLM	0.12	<0.1	5.50 BDLJ
	46 m	16.64	-	1.2	0.20	0.2	5.33 BDLK
	46 m	-	-	-	-	-	5.34
	46 m	-	-	-	-	-	5.34
3/II	0 m	18.54	35.938	0.1 BDMS	0.06	<0.1	5.67 BDMP
	0 m	-	-	-	-	-	5.67
	0 m	-	-	-	-	-	5.67
	20 m (½PZ)	17.96	36.016	0.2 BDMT	<0.01	<0.1	5.54 BDMQ
	20 m (½PZ)	-	-	-	-	-	5.54
	20 m (½PZ)	-	-	-	-	-	5.54
	125 m	16.92	36.168	2.2 BDMV	0.38	3.6	4.46 BDMR
	125 m	-	-	-	-	-	4.46
	125 m	-	-	-	-	-	4.45

TABLE 2. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/oo)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
4/II	0 m	-	-	-	-	-	5.73 BDNV
	0 m	-	-	-	-	-	5.73
	0 m	-	-	-	-	-	5.73
	18 m (½PZ)	-	-	-	-	-	5.47 BDNW
	18 m (½PZ)	-	-	-	-	-	5.47
	18 m (½PZ)	-	-	-	-	-	5.46
	30 m	-	-	-	-	-	5.37 BDNX
	30 m	-	-	-	-	-	5.37
	30 m	-	-	-	-	-	5.36
5/II	0 m	-	-	-	-	-	5.56 BDOB
	0 m	-	-	-	-	-	5.56
	0 m	-	-	-	-	-	5.55
	14 m (½PZ)	-	-	-	-	-	5.61 BDOC
	14 m (½PZ)	-	-	-	-	-	5.60
	14 m (½PZ)	-	-	-	-	-	5.61
	74 m	-	-	-	-	-	5.03 BDOD
	74 m	-	-	-	-	-	5.02
	74 m	-	-	-	-	-	5.02
6/II	0 m	-	-	-	-	-	5.10 DBOH
	0 m	-	-	-	-	-	5.11
	0 m	-	-	-	-	-	5.10
	18 m (½PZ)	-	-	-	-	-	5.57 DBOI
	18 m (½PZ)	-	-	-	-	-	5.57
	18 m (½PZ)	-	-	-	-	-	5.58
	90 m	-	-	-	-	-	5.10 DBOJ
	90 m	-	-	-	-	-	5.10
	90 m	-	-	-	-	-	5.10

TABLE 3.

DISSOLVED OXYGEN AND NUTRIENTS FOUND IN THE STOCS MONITORING STUDY DURING THE APRIL CRUISE IN 1977.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
1/II	0 m	21.32	31.090	6.2 BGNG	0.15	0.5	4.90 BGNB
	0 m	-	-	-	-	-	4.90
	0 m	-	-	-	-	-	4.91
	2 m (½PZ)	21.29	31.092	6.3 BGNH	0.13	0.4	4.91 BGNZ
	2 m (½PZ)	-	-	-	-	-	4.91
	2 m (½PZ)	-	-	-	-	-	4.92
	10 m	21.08	31.556	6.7	0.15	0.5	4.72
	20 m	20.64	32.473	6.2 BGNI	0.17	0.6	4.70 BGNF
	20 m	-	-	-	-	-	4.70
	20 m	-	-	-	-	-	4.70
2/II	0 m	22.91	35.177	1.3 BGON	0.05	0.1	5.16 BGOK
	0 m	-	-	-	-	-	5.16
	0 m	-	-	-	-	-	5.17
	15 m (½PZ)	20.15	35.602	0.8 BGOO	0.05	0.1	5.37 BGOL
	15 m (½PZ)	-	-	-	-	-	5.36
	15 m (½PZ)	-	-	-	-	-	5.37
	20 m	19.42	36.108	1.7	0.06	0.2	5.22
	30 m	19.30	36.133	2.1	0.13	0.3	5.14
	45 m	19.18	36.150	1.7 BGOP	0.06	0.3	5.25 BGOM
	45 m	-	-	-	-	-	5.26
	45 m	-	-	-	-	-	5.24
3/II	0 m	22.61	34.543	1.7 BGPV	0.05	0.1	5.05 BGPS
	0 m	-	-	1.7	-	-	5.05
	0 m	-	-	-	-	-	5.06
	22 m (½PZ)	22.84	35.930	0.8 BGPW	0.06	0.1	4.97 BGPT
	40 m	22.34	36.253	0.8	0.10	0.2	5.00

TABLE 3. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
3/II	60 m	20.52	36.249	1.7	0.13	2.0	5.01
	80 m	18.84	36.186	1.7	0.21	3.5	4.55
	100 m	18.10	36.245	1.7	0.13	2.5	4.82
	125 m	22.68	36.244	- BGPX	-	-	5.11 BGPV 5.11
4/II	0 m	-	-	-	-	-	5.15 BGQZ
	0 m	-	-	-	-	-	5.14
	0 m	-	-	-	-	-	5.15
	10 m (½PZ)	-	-	-	-	-	5.08 BGRA
	10 m (½PZ)	-	-	-	-	-	5.09
	10 m (½PZ)	-	-	-	-	-	5.08
	32 m	-	-	-	-	-	4.95 BGRB
	32 m	-	-	-	-	-	4.95
	32 m	-	-	-	-	-	4.94
5/II	0 m	-	-	-	-	-	5.16 BGRG
	0 m	-	-	-	-	-	5.16
	0 m	-	-	-	-	-	5.17
	16 m (½PZ)	-	-	-	-	-	5.27 BGRH
	16 m (½PZ)	-	-	-	-	-	5.28
	16 m (½PZ)	-	-	-	-	-	5.28
	70 m	-	-	-	-	-	4.99 BGRI
	70 m	-	-	-	-	-	4.98
	70 m	-	-	-	-	-	4.98
6/II	0 m	-	-	-	-	-	5.23 BGRN
	0 m	-	-	-	-	-	5.22
	0 m	-	-	-	-	-	5.23
	15 m (½PZ)	-	-	-	-	-	5.07 BGRO
	15 m (½PZ)	-	-	-	-	-	5.07
6/II	15 m (½PZ)	-	-	-	-		5.07
	90 m	-	-	-	-	-	4.91 BGRP
	90 m	-	-	-	-	-	4.91
	90 m	-	-	-	-	-	4.91

TABLE 4.

DISSOLVED OXYGEN AND NUTRIENTS FOUND IN THE STOCS MONITORING STUDY DURING THE SPRING CRUISE IN 1977.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
1/I	0 m	25.67	27.996	0.8 BIXF	0.06	0.4	5.10 5.08 BIXC
	2.5 m (½PZ)	25.45	27.946	0.8 BIXG	0.10	0.2	5.08 5.11 BIXD
	15 m	-	28.496	1.5 BIXH	0.15	0.3	4.92 5.93 BIXE
2/I	0 m	24.50	33.504	0.8 BIZD	0.04	0.2	5.00 5.19 BIZA
	7 m (½PZ)	24.56	33.595	0.8 BIZE	<0.01	0.2	5.17 5.03 BIZB
	20 m	22.71	35.650	-	-	-	4.81
	30 m	22.66	35.679	3.3	0.23	0.3	4.81 4.82
	40 m	22.54	35.681	5.0 BIZF	0.67	0.4	4.71 4.77 BIZC
3/I	0 m	24.92	33.562	0.4 BJBE	0.25	0.2	5.10 BJBB
	10 m	24.88	33.605	-	-	-	5.09
	22 m (½PZ)	25.00	33.870	0.8 BJBF	0.25	0.1	5.03 BJBC
	30 m	24.98	33.883	0.4	0.25	0.1	5.07
	40 m	24.29	36.221	-	-	-	5.15
	50 m	22.67	36.143	1.3	0.30	0.1	5.35
	60 m	22.14	36.259	-	-	-	5.25
	70 m	21.37	36.214	1.3	0.25	0.1	5.18
	80 m	-	36.073	-	-	-	-
	90 m	19.24	36.347	2.1	0.28	1.2	5.07
	100 m	19.12	36.292	-	-	-	4.99
	110 m	-	36.288	2.5	0.30	1.7	5.01
	120 m	19.08	36.295	-	-	-	5.00
	130 m	18.91	36.289	7.5 BJGB	4.74	2.2	4.51 BJBD
1/II	0 m	25.31	28.763	2.5 BJDN	-	0.2	4.89 4.87 BJDK
	4 m (½PZ)	25.20	28.763	2.5 BJDO	-	0.2	4.96 4.94 BJDL
	20 m	23.55	33.480	6.7 BJDP	0.25	1.3	4.18 BJDM

TABLE 4. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
2/II	0 m	25.25	30.714	0.8 BJFN	0.05	0.2	4.99 5.09 BJFK
	12 m (½PZ)	24.68	32.905	0.8 BJFO	0.05	0.2	5.07 4.87 BJFL
	20 m	21.94	35.632	-	-	-	4.63 4.69
	30 m	21.88	35.778	5.0	-	0.5	4.73 4.74
	40 m	22.06	35.975	-	-	-	5.04 4.97
	47 m	21.72	35.988	3.3 BJFP	0.17	0.4	4.92 4.83 BJFM
3/II	0 m	25.20	31.822	0.8 BJHQ	-	0.2	5.00 BJHN
	14 m (½PZ)	24.28	34.281	0.8 BJHR	0.10	0.2	5.04 BJHO
	30 m	22.77	36.096	1.3	0.04	0.1	5.12
	40 m	22.20	36.114	-	-	-	5.20
	50 m	21.59	36.210	1.3	0.05	0.4	5.20
	60 m	20.44	36.168	-	-	-	5.09
	70 m	19.78	36.224	1.7	0.12	2.7	4.55
	80 m	19.28	36.241	-	-	-	4.29
	90 m	18.78	36.266	2.1	0.17	4.8	4.29
	100 m	18.70	36.285	-	-	-	4.65
	110 m	18.66	36.281	2.5	0.20	2.8	4.71
	120 m	18.68	36.283	-	-	-	4.63
	130 m	18.67	36.281	3.3 BJHS	0.17	2.8	4.59 BJHP
4/II	0 m	25.00	-	-	-	-	5.08 5.00 BJJU
	10 m (½PZ)	24.48	-	-	-	-	4.93 4.79 BJJV
	36 m	23.30	-	-	-	-	4.54 4.50 BJJW
5/II	0 m	25.31	-	-	-	-	5.13 5.16 BJKB
	9 m (½PZ)	25.08	-	-	-	-	5.13 5.14 BJKC
	75 m	19.68	-	-	-	-	5.01 5.06 BJKD

TABLE 4. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
6/II	0 m	25.38	-	-	-	-	4.93 4.98 BJKI
	11 m (½PZ)	25.06	-	-	-	-	5.13 5.18 BJKJ
	95 m	18.98	-	-	-	-	4.77 4.89 BJKL
1/III	0 m	25.06	30.645	2.1 BJKV	0.15	0.4	5.28 5.25 BJKS
	9 m (½PZ)	24.86	30.797	2.1 BJKW	0.05	0.3	5.10 5.09 BJKT
	25 m	21.68	34.880	4.2 BJKX	0.27	2.7	3.74 3.79 BJKV
2/III	0 m	25.12	30.213	0.8 BJMS	0.05	0.3	5.00 5.09 BJMP
	10 m (½PZ)	24.59	32.751	0.8 BJMT	0.05	0.3	5.09 BJMQ
	20 m	21.66	35.828	0.8	0.05	0.3	5.19 5.26
	30 m	20.89	36.185	2.5	0.03	0.2	4.90 4.94
	40 m	20.55	36.226	3.3	-	0.5	4.86 4.94
	50 m	20.18	36.250	2.9	-	-	5.01 5.06
	60 m	19.93	36.263	3.3 BJMV	0.10	0.5	5.22 5.10 BJMR
3/III	0 m	25.18	31.251	0.8 BJOS	0.09	0.2	4.96 BJOP
	12 m (½PZ)	25.09	31.261	0.8 BJOT	0.10	0.3	5.08 BJOQ
	20 m	23.20	35.822	1.3	<0.01	0.2	5.20
	30 m	22.44	36.060	-	-	-	4.92
	40 m	20.58	35.861	1.7	<0.01	0.2	5.23
	50 m	19.81	36.143	-	-	-	5.20
	60 m	19.06	36.221	2.1	0.05	2.1	4.90
	70 m	18.70	36.255	-	-	-	4.87
	80 m	18.56	36.244	2.9	0.13	2.6	4.71
	90 m	18.50	36.258	-	-	-	4.74
	100 m	18.48	36.312	3.3 BJOV	0.17	2.8	4.79 BJOR
1/IV	0 m	24.78	31.710	2.1 BJRA	0.05	0.2	5.04 5.02 BJQX

TABLE 4. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
1/IV	11 m (½PZ)	24.78	31.716	1.2 BJRB	0.05	0.2	5.03 4.97 BJQY
	25 m	22.10	34.256	0.8 BJRC	<0.01	0.4	4.89 4.93 BJQZ
2/IV	0 m	25.00	33.515	0.8 BJSW	0.07	0.3	5.19 BJST
	10 m	21.84	34.862	0.8	0.06	0.4	5.37 5.24
	20 m	21.91	35.919	1.3	<0.01	0.1	5.38 5.40
	29 m (½PZ)	20.56	35.824	0.8 BJSX	0.07	0.1	5.37 5.31 BJSU
	44 m	19.62	36.159	2.5 BJSY	0.10	0.8	4.95 5.00 BJSV
3/IV	0 m	25.00	33.273	1.7 BJUW	0.42	0.4	5.21 BJUT
	10 m	23.22	34.137	0.8	0.13	0.2	5.29
	21 m (½PZ)	21.42	35.208	0.8 BJUX	0.05	0.1	5.36 BJUU
	30 m	20.14	35.999	1.7	0.19	0.1	5.10
	40 m	20.06	36.264	2.1	-	2.7	4.72
	50 m	18.93	36.265	2.1	0.19	4.8	5.22
	60 m	18.99	36.245	-	0.19	4.6	4.45 4.38
	70 m	19.03	36.207	3.3	0.17	2.7	4.79 4.68
	80 m	18.86	36.225	3.3	-	4.6	4.50 4.61
	88 m	18.81	36.228	3.8 BJUY	0.20	4.6	4.67 4.68 BJUV
4/HB	0 m	25.50	31.451	0.8 BJXF	0.10	0.3	5.02 5.13 BJXC
	13 m (½PZ)	24.83	33.009	0.4 BJXG	0.05	<0.1	5.03 5.12 BJXD
	72 m	20.00	36.309	2.1 BJXH	-	0.3	5.18 5.16 BJXE
4/SB	0 m	25.40	30.979	1.7 BJXN	0.03	0.3	4.83 4.92 BJXK
	10 m (½PZ)	25.16	31.361	0.8 BJXO	0.03	<0.1	4.85 4.89 BJXL
	80 m	19.65	36.328	2.9 BJXP	0.05	0.8	4.89 4.93 BJXM

TABLE 5.

DISSOLVED OXYGEN AND NUTRIENTS FOUND IN THE STOCS MONITORING STUDY DURING THE JULY CRUISE IN 1977.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
1/II	0 m	26.68	36.112	3.3 BLDW	-	0.4	4.83 4.83 BLDT
	10 m (½PZ)	26.31	36.098	3.3 BLDX	0.04	0.4	4.95 4.88 BLDU
	20 m	22.59	36.119	3.3 BLDY	0.23	0.4	4.23 4.21 BLDV
2/II	0 m	27.74	35.909	1.7 BLFM	0.43	0.2	4.80 4.78 BLFJ
	10 m	26.72	36.082	2.1	0.12	<0.1	4.82
	20 m	26.34	36.102	2.1	0.08	<0.1	4.89
	31 m (½PZ)	23.40	36.319	2.1 BLFN	<0.01	<0.1	5.32 5.34 BLFK
	40 m	21.30	36.202	2.1	0.03	0.2	5.10
	45 m	20.47	36.254	2.1 BLFO	0.04	<0.1	5.15 5.13 BLFL
3/II	0 m	28.07	35.753	1.7 BLHF	0.02	<0.1	4.83 4.82 BLHC
	10 m	26.98	35.695	1.7	0.02	<0.1	4.88
	20 m	26.60	36.044	1.7	0.02	<0.1	4.98
	26 m (½PZ)	25.55	35.538	1.3 BLHG	0.02	<0.1	5.17 BLHD
	40 m	23.22	36.182	1.3	0.05	<0.1	4.93
	50 m	21.82	36.235	1.3	0.01	<0.1	5.33
	60 m	21.11	36.306	-	-	-	5.21
	70 m	20.22	36.251	1.3	0.01	0.4	4.83
	80 m	19.68	36.270	-	-	-	4.30
	90 m	19.26	36.321	2.1	0.12	3.7	4.32
	100 m	18.67	36.302	-	-	-	3.95
	110 m	18.26	36.274	5.8	0.37	9.0	3.67
	120 m	18.14	36.285	-	-	-	3.57
	130 m	17.22	36.237	3.8 BLHH	0.60	13.8	3.03 3.02 BLHE
4/II	0 m	-	-	-	-	-	4.83 4.83 BLIX
	28 m (½PZ)	-	-	-	-	-	5.25 5.23 BLIY

TABLE 5. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
4/II	35 m	-	-	-	-	-	5.67 5.73 BLIZ
5/II	0 m	-	-	-	-	-	4.75 4.75 BLJE
	25 m (½PZ)	-	-	-	-	-	5.38 5.38 BLJF
	75 m	-	-	-	-	-	4.50 4.56 BLJG
6/II	0 m	-	-	-	-	-	4.79 4.80 BLJL
	30 m (½PZ)	-	-	-	-	-	5.16 5.18 BLJM
	95 m	-	-	-	-	-	3.83 3.85 BLJN

TABLE 6.

DISSOLVED OXYGEN AND NUTRIENTS FOUND IN THE STOCS MONITORING STUDY DURING THE AUGUST CRUISE IN 1977.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (µM)	Phosphate (µM)	Nitrate (µM)	Oxygen (ml/L)
1/II	0 m	28.46	36.321	1.3 BMPT	0.03	<0.1	4.73 BMPQ
	10 m	28.40	36.320	1.7 BMPU	0.04	<0.1	4.67 BMPR
	20 m (½PZ)	25.64	36.217	5.0 BMPV	0.16	<0.1	5.19 BMPS
2/II	0 m	29.68	36.254	1.7 BMRJ	0.06	<0.1	4.74 BMRG
	10 m	28.52	36.226	1.3	0.04	<0.1	4.69
	20 m	28.26	36.218	1.7	0.31	<0.1	4.79
	30 m	27.86	36.239	1.7	0.07	<0.1	4.83
	36 m (½PZ)	24.29	36.282	1.3 BMRK	0.06	<0.1	5.41 BMRH
	45 m	23.69	36.287	1.7 BMRL	0.06	<0.1	5.38 BMRI
3/II	0 m	29.42	36.263	1.7 BMTC	<0.01	<0.1	4.55 BMSJ
	10 m	29.41	36.262	1.7	0.17	<0.1	4.55
	20 m	29.28	36.243	-	0.05	<0.1	4.33
	30 m (½PZ)	30.06	36.219	1.7 BMTD	0.07	<0.1	5.02 BMTA
	50 m	24.00	36.289	1.3	0.28	<0.1	5.44
	60 m	22.80	36.321	0.8	0.10	<0.1	5.38
	70 m	22.16	36.328	0.8	0.03	<0.1	5.28
	80 m	21.32	36.362	0.8	0.02	<0.1	5.03
	90 m	20.48	36.305	1.3	0.03	<0.1	4.97
	100 m	19.84	36.319	1.3	0.08	2.1	4.57
	110 m	19.15	36.340	2.5	-	5.4	4.03
	120 m	18.85	36.339	2.5	0.42	6.5	3.98
	130 m	18.27	36.296	6.3 BMTE	-	9.3	3.30 BMTB
4/II	0 m	28.82	-	-	-	-	4.65 BMUU
	15 m (½PZ)	28.26	-	-	-	-	4.87 BMUV
	33 m	24.18	-	-	-	-	5.48 BMUW

TABLE 6. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
5/II	0 m	29.80	-	-	-	-	4.57 BMVB
	38 m (½PZ)	25.90	-	-	-	-	5.27 BMVC
	79 m	20.72	-	-	-	-	4.75 BMWD
6/II	0 m	29.32	-	-	-	-	4.57 BMVI
	43 m (½PZ)	25.66	-	-	-	-	5.36 BMVJ
	97 m	19.80	-	-	-	-	3.97 BMVK

TABLE 7.

DISSOLVED OXYGEN AND NUTRIENTS FOUND IN THE STOCS MONITORING STUDY DURING THE FALL CRUISE IN 1977.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
1/I	0 m	30.16	33.163	13.9 BOAO	0.38	<0.1	4.89 4.90 BOAL
	3 m (½PZ)	30.08	33.161	13.9 BOAP	0.40	<0.1	4.85 4.87 BOAM
	15 m	29.18	35.240	10.3 BOAQ	0.43	1.8	3.53 3.53 BOAN
2/I	0 m	29.30	33.401	4.8 BOCK	0.17	<0.1	4.65 4.65 BOCH
	13 m (½PZ)	29.47	33.060	2.9 BOCL	0.08	<0.1	4.53 4.54 BOCI
	20 m	29.20	35.256	3.1	0.08	<0.1	4.48
	30 m	29.14	35.514	2.9	0.08	<0.1	4.32
	40 m	26.03	36.235	6.5 BOCM	0.24	1.5	4.31 4.30 BOCJ
3/I	0 m	29.16	36.015	1.9 BOEK	0.05	<0.1	4.60 4.60 BOEH
	10 m	29.12	36.012	2.2	0.05	<0.1	4.58
	20 m (½PZ)	29.04	36.082	2.2 BOEL	0.03	<0.1	4.57 BOEI
	30 m	28.73	36.266	1.4	0.03	<0.1	4.63
	40 m	27.40	36.169	2.9	0.07	<0.1	4.63
	50 m	24.92	36.214	3.1	0.07	<0.1	4.87
	60 m	23.08	36.232	2.6	0.07	0.2	4.88
	70 m	22.74	36.240	2.4	0.09	0.2	4.92
	80 m	22.06	36.249	2.4	0.07	0.2	4.82
	90 m	21.84	36.268	2.0	0.05	0.2	4.88
	100 m	21.28	36.316	1.7	0.07	0.2	4.81
	110 m	20.66	36.325	1.9	0.17	0.7	4.54
	120 m	20.08	36.306	2.9	0.20	2.5	4.09
	130 m	18.12	36.290	4.8 BOEM	0.57	10.2	3.37 3.37 BOEJ
1/II	0 m	29.14	34.202	11.9 BOHE	0.42	0.1	4.51 4.51 BOHB
	3 m (½PZ)	29.14	34.196	12.0 BOHF	0.42	0.1	4.45 4.46 BOHC
	10 m	29.14	34.211	12.0	0.42	0.6	4.41

TABLE . 7. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (µM)	Phosphate (µM)	Nitrate (µM)	Oxygen (ml/L)
1/II	20 m	29.09	35.373	6.7 BOHG	0.35	0.9	3.91 3.91 BOHD
2/II	0 m	29.44	35.386	3.4 BOJD	0.12	<0.1	4.12 4.12 BOJA
	14 m (½PZ)	29.18	35.673	2.8 BOJE	0.09	<0.1	4.47 4.48 BOJB
	25 m	29.08	35.783	2.4	0.08	<0.1	4.48
	35 m	29.10	35.936	2.4	0.06	<0.1	4.50
	45 m	27.92	36.300	4.2 BOJF	0.16	<0.1	4.33 4.32 BOJC
3/II	0 m	29.24	35.732	2.4 BOLF	0.06	<0.1	4.57 4.57 BOLC
	7 m (½PZ)	29.24	35.747	2.4 BOLG	0.06	<0.1	4.55 4.56 BOLD
	20 m	28.93	36.250	2.0	0.03	<0.1	4.63
	30 m	28.72	36.289	2.0	0.03	<0.1	4.58
	40 m	26.46	36.244	2.2	0.05	<0.1	5.09
	50 m	24.20	36.225	2.9	0.08	<0.1	4.97
	60 m	23.76	36.224	2.9	0.10	<0.1	4.91
	70 m	23.34	36.233	2.9	0.08	<0.1	4.95
	80 m	22.70	36.241	2.9	0.08	<0.1	4.93
	90 m	21.91	36.263	2.4	0.08	<0.1	4.82
	100 m	20.98	36.302	1.9	0.05	<0.1	4.66
	110 m	19.33	36.304	3.4	0.34	5.2	3.90
	127 m	19.26	-	3.5 BOLH	0.34	5.8	3.84 3.84 BOLE
4/II	0 m	-	-	-	-	-	4.30 4.30 BONI
	25 m (½PZ)	-	-	-	-	-	4.65 4.63 BONJ
	35 m	-	-	-	-	-	3.57 3.57 BONK
5/II	0 m	-	-	-	-	-	4.57 4.58 BONP
	17 m (½PZ)	-	-	-	-	-	4.59 4.59 BONQ
	75 m	-	-	-	-	-	4.02 4.00 BONR
6/II	0 m	-	-	-	-	-	4.56 4.56 BONW
	15 m (½PZ)	-	-	-	-	-	4.59 4.60 BONX
	95 m	-	-	-	-	-	3.84 3.84 BONY

TABLE 7.CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/oo)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
1/III	0 m	29.73	34.740	12.8 BOOH	0.45	<0.1	4.70 4.71 BOOE
	3 m (½PZ)	29.58	34.738	12.8 BOOI	0.38	<0.1	4.74 4.76 BOOF
	10 m	29.14	34.721	13.2	0.52	0.8	4.40
	23 m	28.96	35.474	6.2 BOOJ	0.43	0.6	4.04 4.03 BOOG
2/III	0 m	29.58	36.090	3.0 BOQD	0.09	<0.1	4.57 4.57 BOQA
	13 m (½PZ)	29.24	36.088	3.4 BOQE	0.12	<0.1	4.55 4.55 BOOB
	20 m	29.08	36.239	2.9	0.08	<0.1	4.52
	30 m	29.96	36.289	2.9	0.08	<0.1	4.44
	40 m	28.92	36.324	2.8	0.05	<0.1	4.47
	50 m	28.83	36.340	2.4	0.08	<0.1	4.35
	63 m	22.44	36.295	4.2 BOQF	0.22	0.9	4.73 4.73 BOQC
3/III	0 m	28.96	36.158	2.5 BOJD	0.07	<0.1	4.53 4.53 BOSA
	10 m	28.93	36.154	2.6	0.05	<0.1	4.55
	23 m (½PZ)	28.94	36.155	2.6 BOSE	0.04	<0.1	4.54 4.55 BOSB
	30 m	28.91	36.163	2.6	0.04	<0.1	4.52
	40 m	28.92	36.233	2.9	0.04	<0.1	4.54
	50 m	27.58	36.237	3.4	0.07	<0.1	4.53
	60 m	23.60	36.289	2.4	0.07	<0.1	5.18
	70 m	23.20	36.290	1.5	0.04	<0.1	5.33
	80 m	21.28	36.287	2.2	0.07	0.2	4.80
	90 m	19.88	36.296	1.7	0.13	3.6	4.49
	100 m	19.24	36.298	4.2 BOSF	0.36	5.9	3.76 3.76 BOSC
1/IV	0 m	29.70	35.963	10.6 BOUG	0.30	<0.1	4.91 4.91 BOUD
	2 m (½PZ)	29.69	35.961	10.6 BOUH	0.30	<0.1	4.92 4.92 BOUE
	10 m	29.15	35.919	10.6	0.28	<0.1	4.68
	20 m	28.98	36.029	11.1	0.42	<0.1	4.20
	25 m	28.92	36.071	12.0 BOUI	0.50	1.0	3.97 3.97 BOUF

TABLE 7. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
2/IV	0 m	29.86	36.313	3.8 BOWC	0.14	<0.1	4.59 4.59 BOVZ
	10 m (½PZ)	29.24	36.321	3.4 BOWD	0.15	<0.1	4.58 4.59 BOWA
	20 m	28.93	36.366	2.9	0.05	<0.1	4.59
	30 m	28.74	36.368	3.1	0.07	<0.1	4.41
	40 m	28.70	36.368	3.9	0.14	<0.1	4.32
	47 m	28.68	36.369	3.8 BOWE	0.17	<0.1	4.31 4.30 BOWB
3/IV	0 m	28.97	36.309	1.5 BOYC	0.04	<0.1	4.59 4.59 BOXZ
	10 m	28.96	36.365	1.5	0.04	<0.1	4.61
	20 m	28.75	36.254	1.5 BOYD	0.05	<0.1	4.64 BOYA
	30 m	28.66	36.249	1.5	0.03	<0.1	4.59
	40 m (½PZ)	28.57	36.240	1.5	0.09	<0.1	4.62 4.63
	50 m	27.26	36.343	3.3	0.10	<0.1	4.58
	60 m	24.93	36.293	2.8	0.09	<0.1	5.10
	70 m	23.85	36.296	2.2	0.08	0.2	5.14
	80 m	21.90	36.316	1.9	0.05	0.2	5.00
	90 m	20.96	36.332	1.9 BOYE	0.08	0.7	4.80 4.78 BOYB
4/HR	0 m	-	-	2.1 BOGN	0.08	<0.1	4.53 4.53 BOGK
	12 m (½PZ)	-	-	2.1 BOGO	0.15	<0.1	4.52 4.53 BOGL
	72 m	-	-	4.4 BOGP	0.30	1.1	4.55 4.53 BOGM
4/SB	0 m	-	-	2.0 BOGV	0.11	<0.1	4.56 4.56 BOGS
	17 m (½PZ)	-	-	2.0 BOGW	0.04	<0.1	4.57 4.58 BOGT
	78 m	-	-	5.4 BOGX	0.41	2.9	3.92 3.91 BOGU

TABLE 8.

DISSOLVED OXYGEN AND NUTRIENTS FOUND IN THE STOCS MONITORING STUDY DURING THE NOVEMBER CRUISE IN 1977.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
1/II	0 m	24.02	34.542	9.2 BSJF	0.46	0.1	5.07 5.08 BSIC
	7 m (½PZ)	24.04	34.543	7.7 BSIG	0.41	0.1	5.02 5.02 BSID
	20 m	24.64	35.078	12.7 BSIH	0.46	0.9	4.65 4.64 BSIE
2/II	0 m	26.07	36.390	4.7 BSJU	0.27	<0.1	4.26 4.26 BSJR
	10 m	26.06	36.392	4.9	0.28	<0.1	4.72
	23 m (½PZ)	26.07	36.392	4.9 BSJV	0.67	<0.1	4.70 4.72 BSJS
	35 m	26.08	36.397	4.8	0.29	0.2	4.68
	45 m	26.06	36.395	4.8 BSJW	0.28	<0.1	4.71 BSJT
3/II	0 m	26.37	36.585	2.8 BSLO	0.24	<0.1	4.74 4.74 BSLL
	10 m	26.38	36.426	3.2	0.28	<0.1	4.74
	20 m	26.38	36.422	3.1	0.12	<0.1	4.78
	34 m (½PZ)	26.38	36.417	2.9 BSLP	0.46	<0.1	4.74 4.74 BSLM
	50 m	26.36	36.419	3.3	0.94	<0.1	4.71
	60 m	24.91	36.348	2.7	0.29	<0.1	5.04
	70 m	23.48	36.308	2.3	0.22	<0.1	5.21
	80 m	22.30	36.350	2.7	0.32	<0.1	4.92
	90 m	21.46	36.351	2.5	0.25	0.1	4.71
	100 m	20.76	36.351	2.9	0.29	0.8	4.40
	110 m	20.27	36.416	4.2	0.49	5.2	3.94
	125 m	19.34	36.441	5.3 BSLQ	0.64	11.2	3.57 3.57 BSLN
4/II	0 m	-	-	-	-	-	4.90 4.90 BSNG
	8 m (½PZ)	-	-	-	-	-	4.89 4.88 BSNH
	33 m	-	-	-	-	-	4.41 4.43 BSNI

TABLE 8. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)		
5/II	0 m	-	-	-	-	-	4.72	4.72	BSNN
	24 m (½PZ)	-	-	-	-	-	4.70	4.70	BSNO
	72 m	-	-	-	-	-	4.31	4.33	BSNP
6/II	0 m	-	-	-	-	-	4.71	4.72	BSNU
	31 m (½PZ)	-	-	-	-	-	4.71	4.71	BSNV
	95 m	-	-	-	-	-	4.28	4.26	BSNW

TABLE 9.

DISSOLVED OXYGEN AND NUTRIENTS FOUND IN THE STOCS MONITORING STUDY DURING THE DECEMBER CRUISE IN 1977.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
1/I	0 m	21.38	33.098	6.8 BTWM	0.40	0.5	5.41 5.38 BTWJ
	3 m (½PZ)	21.38	33.098	6.6 BTWN	0.45	0.3	5.39 5.36 BTWK
	22 m	21.44	33.532	7.5 BTWO	0.73	0.6	5.11 5.13 BTWL
2/II	0 m	23.15	35.318	4.9 BTYD	0.29	0.8	4.96 5.13 BTYA
	15 m (½PZ)	23.60	35.795	4.1 BTYE	0.29	1.6	5.01 5.00
	25 m	23.94	36.211	3.6	0.25	0.2	5.14
	35 m	24.16	36.283	3.0	0.19	0.2	4.97
	45 m	24.29	36.403	3.5 BTYF	0.24	1.1	4.84 BTYC
3/II	0 m	24.35	36.509	3.4 BTZW	0.20	0.3	4.87 BTZT
	15 m	24.36	36.475	3.3 BTZX	0.29	0.2	4.88
	25 m (½PZ)	24.33	36.482	3.5	0.32	0.3	4.90
	45 m	24.34	36.476	2.8	0.17	0.2	4.83
	65 m	22.76	36.405	2.8	0.28	0.8	4.98
	85 m	20.31	36.349	2.3	0.32	2.3	4.32
	105 m	19.06	36.375	4.5	0.65	8.7	3.48
	115 m	18.77	36.380	4.5	0.68	9.4	3.46
	125 m	18.29	36.347	4.8	0.66	9.7	3.35
	130 m	17.91	36.322	5.0 BTZY	0.74	11.8	3.34 BTZV
4/II	0 m	-	-	-	-	-	5.22 BUBN
	5 m (½PZ)	-	-	-	-	-	5.25 BUBO
	36 m	-	-	-	-	-	4.45 BUBP

TABLE 9. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
5/II	0 m	-	-	-	-	-	4.94 BVBU
	18 m (½PZ)	-	-	-	-	-	5.00 BUBV
	78 m	-	-	-	-	-	3.82 BVBW
6/II	0 m	-	-	-	-	-	4.96 BUCB
	20 m (½PZ)	-	-	-	-	-	4.98 BUCC
	97 m	-	-	-	-	-	3.55 BUCD

TABLE 10.

DISSOLVED OXYGEN AND NUTRIENTS FOUND IN THE TOPO HIGH STUDY DURING THE JUNE CRUISE IN 1977.

Station	Depth	Temp. (°C)	Salinity (°/oo)	Silicate (µM)	Phosphate (µM)	Nitrate (µM)	Oxygen (ml/L)
Parker/1	0 m	27.78	-	1.3	0.05	<0.1	4.65
	48 m (½PZ)	24.32	-	1.3	0.05	<0.1	5.16
	90 m	21.30	-	1.3	0.06	<0.1	4.98
Parker/2	0 m	28.06	-	0.8	0.01	<0.1	4.74
	48 m (½PZ)	24.69	-	1.3	0.05	<0.1	5.06
	89 m	20.50	-	1.7	0.12	1.3	4.69
Parker/3	0 m	28.26	-	1.3	0.05	<0.1	4.73
	30 m (½PZ)	27.33	-	1.3	0.07	<0.1	4.81
	89 m	21.64	-	1.7	0.07	<0.1	4.99
Parker/4	0 m	28.25	-	1.3	0.04	<0.1	4.70
	33 m (½PZ)	27.13	-	1.3	<0.01	<0.1	4.86
	103 m	21.07	-	1.3	0.04	0.3	4.92
Three Hickey/1	0 m	27.70	-	1.7	0.04	<0.1	4.75 4.76
	31 m (½PZ)	25.72	-	0.8	0.04	<0.1	4.97 5.01
	59 m	22.36	-	0.8	0.04	<0.1	5.38 5.40
Three Hickey/2	0 m	28.36	-	1.7	0.05	<0.1	4.74 4.69
	32 m (½PZ)	26.92	-	0.8	0.04	<0.1	4.84 4.86
	60 m	21.56	-	2.9	0.15	<0.1	5.19 5.20
Three Hickey/3	0 m	28.77	-	2.5	0.04	<0.1	4.77 4.74
	43 m (½PZ)	23.45	-	1.3	0.05	<0.1	5.32 5.33
	59 m	21.64	-	2.5	0.05	<0.1	5.20 5.27

TABLE 10. CONT'D

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
Three Hickey/4	0 m	28.35	-	1.3	0.05	<0.1	4.76 4.73
	29 m (½PZ)	26.41	-	4.2	0.05	<0.1	4.88 4.91
	60 m	21.40	-	0.8	-	<0.1	5.14 5.09
EFG/1	0 m	27.26	-	0.8	0.10	0.7	4.46 4.48
	30 m (½PZ)	24.39	-	0.8	0.05	<0.1	4.80 4.85
	115 m	18.96	-	-	0.40	5.5	3.79 3.72
EFG/2	0 m	26.89	-	1.3	-	1.1	5.08
	26 m (½PZ)	24.58	-	1.3	0.05	<0.1	5.60
	110 m	19.36	-	3.3	0.18	3.0	4.73
EFG/3	0 m	27.24	-	1.3	0.40	<0.1	5.11
	31 m (½PZ)	24.96	-	0.8	0.28	<0.1	5.58 5.55
	103 m	19.03	-	3.8	-	4.6	4.36 4.31
EFG/4	0 m	27.54	-	0.8	0.08	<0.1	5.10
	31 m (½PZ)	25.64	-	1.3	0.08	<0.1	5.55 5.42
	99 m	19.43	-	4.2	0.27	3.1	4.58 4.57
WC656/1	0 m	27.71	-	1.3	0.06	<0.1	4.88 4.87
	35 m (½PZ)	24.45	-	1.3	0.07	<0.1	5.44 5.43
	118 m	19.00	-	2.5	0.58	5.6	4.03 4.04
WC656/2	0 m	27.40	-	1.3	0.12	<0.1	4.94 4.93
	44 m (½PZ)	23.98	-	1.3	0.14	<0.1	5.51 5.55
	88 m	19.60	-	1.3	-	3.3	4.41 4.47

TABLE 10. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (µM)	Phosphate (µM)	Nitrate (µM)	Oxygen (ml/L)
WC656/3	0 m	27.82	-	1.3	0.13	<0.1	4.88 4.86
	33 m (½PZ)	25.61	-	0.8	0.04	<0.1	5.22 5.29
	85 m	20.77	-	1.3	0.05	0.3	5.21 5.17
WC656/4	0 m	28.10	-	0.8	0.28	<0.1	4.88 4.89
	44 m (½PZ)	23.32	-	1.3	0.10	<0.1	5.48 5.50
	66 m	20.96	-	1.3	0.06	-	5.30 5.26

TABLE 11.

DISSOLVED OXYGEN AND NUTRIENTS FOUND IN THE TOPO HIGH STUDY DURING THE SEPTEMBER CRUISE IN 1977.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
EFG/1	0 m	-	-	1.7	0.17	0.1	4.61 4.63
	40 m (½PZ)	-	-	1.7	0.17	0.1	4.90 4.95
	100 m	-	-	3.4	0.44	4.5	3.91 3.78
EFG/2	0 m	-	-	1.9	0.17	0.1	4.63 4.56
	40 m (½PZ)	-	-	1.9	0.14	<0.1	4.87 4.93
	100 m	-	-	3.4	0.44	6.5	3.90 3.89
EFG/3	0 m	-	-	1.7	0.14	0.1	4.61 4.64
	40 m (½PZ)	-	-	1.7	0.17	<0.1	4.70 4.72
	105 m	-	-	4.0	2.28	6.6	3.93 3.92
EFG/4	0 m	-	-	1.7	0.17	0.1	4.61 4.61
	40 m (½PZ)	-	-	1.6	0.17	0.1	4.83 -
	90 m	-	-	3.4	0.40	4.2	4.11 4.11
Sackett	0 m	-	-	0.4	0.41	<0.1	5.93 -
1	12 m (½PZ)	-	-	1.0	0.41	0.2	4.84 -
	82 m	-	-	3.6	0.37	2.9	4.22 4.22
Sackett	0 m	-	-	0.4	0.38	<0.1	5.69 5.70
2	12 m (½PZ)	-	-	0.6	0.10	<0.1	4.68 4.68
	83 m	-	-	3.4	0.34	2.5	4.37 4.43

TABLE 11. CONT'D.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (µM)	Phosphate (µM)	Nitrate (µM)	Oxygen (ml/L)
Sackett 3	0 m	-	-	0.4	0.38	<0.1	5.64 5.66
	12 m (½PZ)	-	-	0.6	0.38	<0.1	5.09 5.08
	85 m	-	-	4.6	0.72	18.1	3.47 3.48
Sackett 4	0 m	-	-	0.8	0.44	0.1	5.28 5.27
	12 m (½PZ)	-	-	0.8	0.35	0.1	5.05 5.01
	84 m	-	-	3.8	0.58	7.4	3.69 3.70

TABLE 12

DISSOLVED OXYGEN AND NUTRIENTS FOUND IN THE TOPO HIGH STUDY DURING THE FEBRUARY CRUISE IN 1978.

Station	Depth	Temp. (°C)	Salinity (°/₀₀)	Silicate (μM)	Phosphate (μM)	Nitrate (μM)	Oxygen (ml/L)
EFG/1	0 m	-	-	2.0	0.56	1.60	-
	15 m (½PZ)	-	-	2.2	0.62	2.05	-
	118 m	-	-	3.4	0.62	4.05	-
EFG/2	0 m	-	-	2.4	0.38	2.05	4.11
	15 m (½PZ)	-	-	2.2	0.34	1.80	3.82
	110 m	-	-	3.4	0.48	4.30	3.06
EFG/3	0 m	-	-	3.0	0.48	2.05	2.90
	15 m (½PZ)	-	-	2.8	0.34	1.95	3.23
	108 m	-	-	3.6	0.52	3.95	3.15
EFG/4	0 m	-	-	2.8	0.24	1.95	3.62
	15 m (½PZ)	-	-	2.4	0.16	1.95	3.57
	115 m	-	-	3.4	0.48	3.95	5.22

TABLE 13.

LOW-MOLECULAR-WEIGHT HYDROCARBONS FOUND IN THE STOCS MONITORING STUDY DURING THE WINTER CRUISE IN 1977.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
1/I	0 m	BAAI	104 -	3.50 3.20	1.10 0.73	0.87 0.88	0.75 0.71
	2 m	BBAJ	93 84	3.50 3.62	1.06 1.04	0.87 0.84	0.66 0.65
	15 m	BAAK	182 131	3.00 3.00	0.92 0.90	0.54 0.57	0.52 0.64
2/I	0 m	BACB	275 275	2.27 2.30	0.64 0.63	0.54 0.48	0.55 0.46
	14 m	BACC	297	2.37	0.64	0.51	0.49
	20 m		227	2.5	0.7	-	-
	30 m		275	2.3	0.7	-	-
	40 m	BACD	403 409	2.12 2.17	0.62 0.62	0.47 0.46	0.50 0.49
3/I	0 m	BADW	135	7.50	0.51	0.67	0.41
	10 m	BADX	113 116	3.50 3.63	0.48 0.51	0.61 0.61	0.36 0.41
	50 m		121	3.1	0.9	-	-
	70 m		100	3.1	0.7	-	-
	110 m	BADT	825 -	0.11 0.11	0.42 0.37	0.32 0.31	0.41 0.36
1/II	0 m	BAGG	91	4.05	0.76	0.89	0.55
	3 m	BAGK	90	3.85	0.74	0.87	0.52
	20 m	BAGI	98 100	4.00 3.92	0.76 0.78	0.92 0.98	0.55 0.52
2/II	0 m	BAIQ	229	2.88	0.62	0.51	0.45
	8.5 m	BAIR	242	2.25	0.59	0.48	0.43
	20 m		208	2.2	0.9	-	-
	30 m		211	2.1	0.9	-	-
	40 m		-	2.4	0.8	-	-
	45 m	BAIS	241	2.93	0.70	0.56	0.52

TABLE 13. CONT'D.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
3/II	0 m	BAKR	115 102	3.88 2.80	0.54 0.53	0.57 0.59	0.41 0.42
	9 m	BAKS	104 107	3.50 3.00	0.52 0.51	0.61 -	0.42 -
	30 m		103	-	-	-	-
	50 m		108	-	-	-	-
	75 m		155	-	-	-	-
	100 m		183	-	-	-	-
	125 m	BAKT	238 261	1.25 1.20	0.39 0.37	0.37 0.35	0.50 0.48
1/III	0 m	BAQI	89 117	3.37 4.00	0.80 0.90	0.91 0.93	0.58 0.61
	3 m	BAQJ	99 99	3.55 3.70	0.79 0.82	0.93 0.95	0.61 0.67
	10 m		77	3.3	0.9	-	-
	20 m	BAQK	122 119	2.75 2.75	0.71 0.70	0.51 0.51	0.49 0.49
2/III	0 m	BASB	194 185	2.40 2.05	0.60 0.59	0.47 -	0.45 -
	14 m	BASC	185	2.18	0.56	0.51	0.46
	30 m		137	2.6	0.6	-	-
	40 m		131	2.2	0.6	-	-
	60 m	BASD	166 159	2.17 2.18	0.59 0.59	0.51 0.51	0.49 0.49
3/III	0 m	BATV	361 392	1.93 1.87	0.59 0.57	0.46 0.47	0.44 0.44
	25 m	BATW	393 -	1.95 1.82	0.59 0.59	0.48 0.46	0.46 0.48
	40 m		316	2.0	0.7	-	-
	50 m		304	1.6	0.6	-	-
	60 m		304	2.1	0.7	-	-
	80 m		208	2.1	0.6	-	-
	100 m	BATX	188 -	2.05 2.12	0.55 0.56	0.48 -	0.44 -
1/IV	0 m	BAWB	99	3.13	0.67	0.69	0.64
	2.5 m	BAWC	103	3.10	0.67	0.69	0.67
	25 m	BAWD	101	2.18	0.67	0.51	0.58

TABLE 13 . CONT'D.

Station	Depth	Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
2/IV	0 m BAXY	121 140	2.00 2.50	0.48 0.56	0.54 0.55	0.41 0.42
	11 m BAXZ	174 170	2.50 2.55	0.63 0.59	0.60 0.48	0.48 0.46
	20 m	126	2.1	0.6	-	-
	30 m	134	2.0	0.4	-	-
	45 m BAXA	174 171	2.38 2.50	0.59 0.62	0.54 0.51	0.45 0.44
3/IV	0 m BAZS	307	2.13	0.64	0.39	0.39
	10 m	233	2.1	0.7	-	-
	20 m BAZT	273	1.93	0.53	0.40	0.46
	30 m	230	1.6	0.7	-	-
	40 m	233	2.0	0.7	-	-
	50 m	227	2.1	0.7	-	-
	60 m	230	2.1	0.7	-	-
	70 m	224	2.0	0.7	-	-
	80 m	108	1.9	0.7	-	-
	85 m BAZV	310	1.88	0.55	0.43	0.38

TABLE 14.

LOW-MOLECULAR-WEIGHT HYDROCARBONS FOUND IN THE STOCS MONITORING STUDY DURING THE MARCH CRUISE IN 1977.

Station	Depth		Methane (nl/L)		Ethene (nl/L)		Ethane (nl/L)		Propene (nl/L)		Propane (nl/L)	
1/II	0 m	BDKF	90	91	3.95	4.25	0.78	0.75	1.69	1.62	0.66	0.62
	3 m	BDKG	94	96	3.75	3.43	0.78	0.73	1.61	1.58	0.59	0.57
	19 m	BDKH	127		3.88	3.73	0.58	0.81	1.33	1.22	0.68	0.65
2/II	0 m	BDLO	107	114	3.50	3.68	0.57	0.54	1.51	1.51	0.56	0.56
	21 m	BDLP	209	214	2.98	3.08	0.64	0.61	1.07	0.84	0.46	0.53
	46 m	BDLQ	223		3.45		0.77		0.77		0.49	
3/II	0 m	BDMV	68	63	4.50	4.38	0.45	0.44	1.22	0.81	0.42	0.36
	20 m	BDMW	68	66	5.00	-	0.46	0.45	1.02	0.99	0.39	0.46
	125 m	BDMX	403		2.68		0.77		0.64		0.52	

TABLE 15.

LOW-MOLECULAR-WEIGHT HYDROCARBONS FOUND IN THE STOCS MONITORING STUDY DURING THE APRIL CRUISE IN 1977

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
1/II	0 m	BGNJ	120 122	3.94 4.25	1.44 1.58	1.89 1.93	1.14 1.11
	2 m	BGNK	176 157	4.38 4.25	1.77 1.74	1.50 1.71	1.01 0.94
	10 m		147	4.6	1.8	-	-
	20 m	BGNL	210 206	4.30 4.35	1.71 1.77	1.42 1.39	0.94 0.91
2/II	0 m	BGOQ	96 99	2.80 3.45	0.35 0.39	1.48 1.60	0.47 0.51
	15 m	BGOR	106 109	3.58 3.00	0.44 0.46	1.13 1.16	0.47 0.48
	20 m		235	3.7	1.1	-	-
	30 m		302	3.4	1.1	-	-
	45 m	BGOS	458 492	3.33 3.13	1.22 1.30	0.75 1.16	0.48 0.59
3/II	0 m	BGPY	61 57	2.95 3.28	0.23 0.24	1.94 1.89	0.42 0.36
	22 m	BGPZ	57 56	2.45 2.55	0.21 0.21	1.00 0.94	0.27 0.26
	40 m		47	-	-	-	-
	60 m		74	-	-	-	-
	80 m		86	-	-	-	-
	100 m		362	-	-	-	-
	125 m	BGQA	527 502	1.80 1.80	0.96 0.96	0.61 0.61	1.14 1.16

TABLE 16.

LOW-MOLECULAR-WEIGHT HYDROCARBONS FOUND IN THE STOCS MONITORING STUDY DURING THE SPRING SEASONAL CRUISE IN 1977.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
1/I	0 m	BIXI	65	4.18	0.53	1.30	0.62
	2.5 m	BIXJ	73	3.68	0.58	1.50	0.62
	15 m	BIXK	91 94	3.56 3.62	0.82 0.82	1.50 1.40	0.61 0.58
2/I	0 m	BIZG	62 75	3.29 3.38	0.34 0.39	1.40 1.50	0.46 0.51
	7 m	BIZH	76	3.89	0.50	1.90	0.48
	20 m		110	7.6	0.4	-	-
	30 m		190	9.8	-	-	-
	40 m	BIZI	183 180	3.96 3.96	0.66 0.63	1.00 0.85	0.62 0.62
3/I	0 m	BJBH	44	3.37	0.28	1.37	0.33
	10 m		41	4.8	0.3	-	0.3
	22 m	BJBI	47	4.89	0.32	0.92	0.4
	30 m		44	5.8	0.4	-	0.6
	40 m		49	7.8	0.5	-	0.7
	50 m		69	6.2	0.7	-	0.7
	70 m		74	6.1	0.8	-	-
	80 m		300	4.1	0.7	-	-
	90 m		1280	3.0	1.8	-	1.0
	100 m		975	3.0	1.5	-	1.1
	110 m		910	3.4	3.2	-	1.5
	120 m		804	2.6	1.1	-	1.2
	130 m	BJBJ	440	1.73	0.97	0.41	0.97
1/II	0 m	BJDQ	68	3.80	0.34	1.20	0.37
	4 m	BJDR	64	3.38	0.34	1.10	0.45
	20 m	BJDS	145	4.22	0.61	1.30	0.65

TABLE 16. CONT'D.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
2/II	0 m	BJFQ	50	5.18	0.32	1.2	0.42
	12 m	BJFR	54	5.14	0.37	0.99	0.41
	30 m		243	4.1	-	-	-
	40 m		354	6.4	-	-	-
	47 m	BJRS	194	3.73	1.03	0.73	1.04
3/II	0 m	BJHT	60 57	- 5.67	0.21 0.29	1.25 1.20	0.42 0.30
	14 m	BJHV	52	5.07	0.32	0.73	0.39
	30 m		85	-	-	-	-
	40 m		90	-	-	-	-
	50 m		86	-	-	-	-
	60 m		478	-	-	-	-
	70 m		112	-	-	-	-
	80 m		107	-	-	-	-
	90 m		322	-	-	-	-
	100 m		547	-	-	-	-
	110 m		574	-	-	-	-
	120 m		506	-	-	-	-
	130 m	BJHV	429 449	1.03 0.92	0.87 0.84	0.33 0.36	1.00 1.00
1/III	0 m	BJKY	57	4.32	0.41	1.30	0.36
	9 m	BJKZ	59	6.10	0.46	1.28	0.46
	25 m	BJLA	93	3.76	0.62	1.21	0.63
2/III	0 m	BJMV	57 57	- 4.78	0.25 0.26	1.20 1.10	0.45 0.45
	10 m	BJMW	55	4.11	0.24	1.00	0.36
	20 m		112	-	-	-	-
	30 m		359	5.4	1.5	-	-
	40 m		544	7.3	4.0	-	-

TABLE 16. CONT'D.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
2/III	50 m		503	6.1	1.7	-	-
	60 m	BJMX	504 471	3.44 3.22	1.60 1.60	0.57 0.56	1.10 1.10
3/III	0 m	BJOV	57	5.22	0.29	1.40	0.40
	12 m	BJOW	52 51	4.56 4.62	0.25 0.25	1.00 1.00	0.34 0.33
	20 m		87	-	-	-	-
	30 m		82	-	-	-	-
	40 m		161	-	-	-	-
	60 m		343	-	-	-	-
	70 m		635	-	-	-	-
	80 m		722	-	-	-	-
	90 m		734	-	-	-	-
	100 m	BJOX	601 774	1.80 2.04	0.89 0.97	0.42 0.44	0.80 0.84
1/IV	0 m	BJRD	51	3.34	0.39	1.32	0.49
	11 m	BJRE	47	2.75	0.37	1.16	0.52
	25 m	BJRF	86	2.96	0.44	1.21	0.71
2/IV	0 m	BJSZ	152	4.75	0.34	1.80 1.62	0.49 0.52
	20 m		110	7.56	0.42	-	-
	29 m	BJTA	146	3.50	0.73	0.75	0.78
	44 m	BJTB	3.48 3.76	3.25 3.50	1.16 1.16	0.64 0.81	- 0.98
3/IV	0 m	BJVZ	260	4.34	-	1.36	-
	10 m		108	7.8	0.7	-	-
	21 m	BJVA	121	6.10	0.8	0.70	0.52
	30 m		321	5.0	1.0	-	-
	40 m		109	4.7	1.9	-	-
	50 m		162	4.4	0.7	-	-
	60 m		409	4.1	0.9	-	-
3/IV	70 m		622	4.8	1.1	-	-
	80 m		475	4.9	0.9	-	-
	88 m	BJVB	- 589	3.25 3.13	0.73 1.02	0.52 0.64	0.62

TABLE 17.

LOW-MOLECULAR-WEIGHT HYDROCARBONS FOUND IN THE STOCS MONITORING STUDY DURING THE JULY CRUISE IN 1977.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
1/II	0 m	BLDZ	510 646	3.13 3.38	0.12 0.12	0.55 0.59	0.27 0.27
	10 m	BLEA	92 95	3.38 3.38	0.24 0.21	1.50 1.30	0.41 0.27
	20 m	BLEB	476 544	4.75 5.00	1.08 0.71	0.65 0.72	0.88 0.95
2/II	0 m	BLFP	61 68	5.00 7.00	0.24 -	1.30 -	0.27 -
	10 m		53	4.6	0.3	-	-
	20 m		65	4.3	0.3	-	-
	31 m	BLFQ	156 197	7.75 7.75	0.36 0.42	0.85 -	0.41 -
	40 m		300	4.7	1.1	-	-
	45 m	BLFR	186 184	1.75 1.38	0.30 0.29	0.78 0.72	1.05 1.05
3/II	0 m	BLHI	44 51	4.88 5.50	0.12 0.12	1.76 1.82	0.31 0.31
	10 m		49	5.3	0.3	1.5	-
	20 m		54	14.0	0.3	1.8	-
	26 m	BLHJ	83 88	11.4 12.0	0.33 0.30	1.11 1.11	0.41 0.41
	40 m		130	7.7	1.3	1.2	-
	50 m		4000	5.8	4.6	-	-
	60 m		3700	4.1	3.6	-	-
	70 m		400	1.8	0.6	-	-
	80 m		230	2.3	0.6	-	-
	90 m		352	1.8	0.9	-	-
	110 m		180	1.8	1.2	-	-
	120 m		150	1.5	0.5	-	-
	130 m	BLHK	108 124	0.68 0.80	0.23 0.27	0.23 0.33	0.37 0.41

TABLE 18.

LOW-MOLECULAR-WEIGHT HYDROCARBONS FOUND IN THE STOCS MONITORING STUDY DURING THE AUGUST CRUISE IN 1977.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
1/II	0 m	BMPW	43 44	3.38 3.25	0.23 0.21	1.43 1.40	0.27 0.31
	10 m	BMPX	60 58	3.50 3.55	0.15 0.15	1.30 1.30	0.34 0.31
	20 m	BMPY	374 408	6.00 6.25	0.57 0.54	1.24 1.17	0.68 0.65
2/II	0 m	BMRM	47	5.3	0.18	1.59	0.27
	0 m	BMRM	50	6.8	0.17	1.40	0.27
	0 m	BMRM	54	5.5	0.18	1.55	0.27
	10 m		50	8.7	0.2	1.6	-
	20 m		59	11.6	0.3	1.6	-
	36 m	BMRN	53	12.0	0.20	1.69	0.27
	36 m	BMRN	53	11.6	0.20	1.70	0.25
	36 m	BMRN	54	11.0	0.20	1.70	0.25
	45 m	BMRO	114	20.3	0.90	1.43	0.54
	45 m	BMRO	116	20.0	0.81	1.37	0.51
	45 m	BMRO	119	20.8	0.84	1.50	0.58
3/II	0 m	BMTF	51	4.8	0.29	1.24	0.75
	0 m	BMTF	53	5.6	0.29	1.76	1.09
	0 m	BMTF	52	6.3	0.32	2.08	1.50
	10 m		54	6.6	4.6	2.1	4.5
	20 m		45	7.8	0.3	2.6	1.2
	36 m	BMTG	58	9.75	0.21	1.50	0.27
	36 m	BMTG	58	14.3	0.21	1.56	0.27
	36 m	BMTG	58	11.3	0.23	1.63	0.27
	50 m		100	10.9	1.2	1.1	-
	60 m		100	6.0	0.8	0.9	-
	70 m		175	5.4	0.7	1.1	-
	90 m		310	3.0	0.8	-	-

TABLE 18. CONT'D.

Station	Depth	Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
3/II	110 m	220	2.4	2.2	-	-
	120 m	215	2.0	0.8	-	-
	130 m BMTH	213	1.33	0.54	0.52	0.68
	130 m BMTH	207	1.28	0.54	0.55	0.68
	130 m BMTH	207	1.23	0.54	0.55	0.68

TABLE 19.

LOW-MOLECULAR-WEIGHT HYDROCARBONS FOUND IN THE STOCS MONITORING STUDY DURING THE FALL SEASONAL CRUISE IN IN 1977.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
1/I	0 m	BOAR	135 115	4.98 5.05	0.36 0.30	2.04 2.01	0.51 0.44
	3 m	BOAS	123	5.20	0.39	2.03	0.48
	15 m	BOAT	219 213	2.80 2.50	0.30 0.27	1.16 1.15	0.41 0.43
2/I	0 m	BOCN	72 77	3.00 3.13	0.18	1.40 1.49	0.37 0.44
	13 m	BOCO	67	2.70	0.15	1.03	0.27
	20 m		68	2.4	0.2	-	-
	30 m		67	3.4	0.4	-	-
	40 m	BOCP	223	6.30	0.75	0.68	0.61
3/I	0 m	BOEN	161 122	4.95 5.24	0.54 0.43	1.11 0.65	0.82 0.52
	10 m		122	5.1	0.7	-	-
	20 m	BOEO	214 188	10.6 8.46	0.75 0.88	0.99 0.87	1.09 0.93
	30 m		56	9.2	0.4	-	-
	40 m		533	12.9	1.8	-	-
	50 m		412	14.1	1.6	-	-
	60 m		1750	8.5	4.1	-	-
	70 m		1800	6.4	3.0	-	-
	80 m		1750	3.6	2.8	-	-
	90 m		1300	3.5	1.9	-	-
	100 m		283	2.6	0.7	-	-
	110 m		292	2.5	0.6	-	-
	120 m		292	2.1	0.6	-	-
	130 m	BOEP	192 229	0.75 0.83	0.27 0.46	0.31 0.27	0.49 0.55

TABLE 19. CONT'D.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
1/II	0 m	BOHH	113	3.18	0.63	1.23	0.53
	3 m	BOHI	100	3.30	0.36	1.04	0.51
	10 m		110	3.2	-	-	-
	20 m	BOHJ	102 94	3.30 3.34	0.32 0.38	1.11 1.04	0.49 0.41
2/II	0 m	BOJG	53 57	2.95 3.45	0.15 0.25	1.03 1.02	0.31 0.25
	14 m	BOJH	63 80	4.00 3.91	0.18 0.26	0.88 0.91	0.24 0.26
	25 m		118	4.0	0.8	-	-
	35 m		60	3.5	0.3	-	-
	45 m	BOJI	140 167	5.88 7.02	0.18 0.49	0.79 0.75	0.27 0.30
3/II	0 m	BOLI	90 105	7.75 9.20	0.30 0.35	1.11 0.98	0.31 0.31
	7 m	BOLJ	77 80	4.30 4.12	0.38 0.33	0.85 0.93	0.24 0.29
	20 m		72	6.7	0.6	-	-
	30 m		127	6.3	0.7	-	-
	40 m		196	20.5	1.0	-	-
	50 m		416	13.1	17.5	-	-
	60 m		499	10.6	2.4	-	-
	70 m		507	9.3	1.5	-	-
	80 m		564	7.7	1.7	-	-
	90 m		559	5.2	0.9	-	-
	100 m		908	2.9	1.3	-	-
	110 m		323	2.4	0.9	-	-
	127 m	BOLK	288	1.70	0.51	0.36	0.51
1/III	0 m	BOOK	75 72	4.63 5.06	0.48 -	1.18 1.21	0.48 0.47
	3 m	BOOL	69 69	5.30 5.52	0.30 0.38	1.04 0.94	0.37 0.34
	10 m		131	3.9	-	-	-
	23 m	BOOM	95 96	2.75 2.99	0.34 0.33	0.88 0.86	0.34 0.34

TABLE 19 . CONT'D.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
2/III	0 m	BOQG	52 52	2.88 3.29	0.12 0.18	1.23 1.03	0.31 0.18
	13 m	BOQH	52 65	2.00 2.88	0.15 0.25	0.52 0.44	0.31 0.34
	20 m		85	4.3	-	-	-
	30 m		69	3.7	-	-	-
	40 m		65	3.9	-	-	-
	50 m		56	4.6	-	-	-
	63 m	BOQI	306 378	4.75 6.44	0.96 1.10	0.39 0.40	0.48 0.47
3/III	0 m	BOJG	61 88	3.25 4.83	0.26 0.30	0.72 0.77	0.27 0.20
	10 m		68	4.3	0.3	-	-
	23 m	BOJH	58 60	2.12 2.53	0.26 0.25	0.54 0.51	0.27 0.52
	30 m		71	3.5	0.4	-	-
	40 m		71	5.1	0.5	-	-
	50 m		157	8.1	0.7	-	-
	60 m		198	10.4	1.8	-	-
	70 m		213	9.8	1.9	-	-
	80 m		450	4.5	1.1	-	-
	90 m		458	2.4	0.9	-	-
	100 m	BOJI	265	2.65	0.42	0.31	0.42
1/IV	0 m	BOUJ	65 86	4.75 5.13	0.36 0.48	1.01 1.17	0.24 0.49
	2 m	BOUK	73 91	5.75 5.64	0.30 0.30	1.11 1.10	0.34 0.37
	10 m		95	3.6	-	-	-
	20 m		91	3.5	-	-	-
	25 m	BOUL	90	3.98	0.30	0.68	0.28
2/IV	0 m	BOWF	49	2.88	0.13	0.91	0.20
	10 m	BOWG	60 62	4.50 4.19	0.11 0.18	0.92 0.89	0.25 0.21
	30 m		55	3.7	-	-	-
	40 m		76	3.2	-	-	-

TABLE 19. CONT'D.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
2/IV	47 m	BOWH	63 58	2.32 3.27	0.09 0.16	0.72 0.68	0.24 0.18
3/IV	0 m	BOYF	52 63	- 10.0	- 0.24	0.72 1.10	0.20 0.22
	10 m		57	9.0	0.3	-	-
	20 m	BOYG	55	7.8	0.3	-	-
	30 m		52	8.3	0.3	-	-
	40 m		65 70	8.25 13.8	0.24 0.25	0.99 0.54	0.27 0.16
	50 m		167	8.3	0.6	-	-
	60 m		392	15.9	1.2	-	-
	70 m		647	12.9	1.2	-	-
	80 m		357	5.5	0.7	-	-
	90 m	BOYH	357	2.38	0.56	0.42	0.48

TABLE 20.

LOW-MOLECULAR-WEIGHT HYDROCARBONS FOUND IN THE STOCS MONITORING STUDY DURING THE NOVEMBER CRUISE IN 1977.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
1/I	0 m	BSII	75	2.16	1.16	0.49	0.39
	0 m		77	2.04	1.09	0.34	0.40
	0 m		88	2.25	1.12	0.41	0.40
	7 m	BSIJ	84	3.15	0.77	1.22	0.40
	7 m		90	2.85	0.70	1.12	0.47
	7 m		85	2.85	0.74	1.16	0.43
	20 m	BSIK	100	2.46	0.35	0.95	0.31
	20 m		107	2.55	0.35	0.95	0.31
	20 m		98	2.52	0.35	0.88	0.33
2/II	0 m	BSJX	119	6.15	0.39	2.56	0.27
	0 m		123	4.20	0.42	2.03	0.26
	0 m		110	4.11	0.40	2.16	0.24
	10 m		113	3.6	0.4	-	-
	23 m	BSJY	132	3.63	0.40	1.28	0.21
	23 m		127	3.45	0.39	1.22	0.22
	23 m		129	3.51	0.46	1.20	0.21
	35 m		131	3.9	0.4	-	-
	45 m	BSJZ	141	2.71	0.35	1.08	0.30
	45 m		147	3.30	0.35	1.21	0.29
	45 m		132	2.90	0.35	1.21	0.27

TABLE 20. CONT'D.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
3/II	0 m	BSLR	49	4.80	0.23	0.70	0.31
	0 m		54	4.99	0.31	0.61	0.26
	0 m		51	4.98	0.28	0.65	0.28
	10 m		94	4.3	-	-	-
	20 m		64	5.1	-	-	-
	34 m	BSLS	62	4.52	0.33	0.54	0.22
	34 m		64	4.80	0.33	0.68	0.20
	34 m		68	4.76	0.35	0.58	0.22
	60 m		175	8.3	-	-	-
	70 m		206	8.4	-	-	-
	80 m		354	5.9	-	-	-
	90 m		168	4.2	-	-	-
	100 m		179	3.1	-	-	-
	110 m		231	2.9	-	-	-
	125 m	BSLT	343	1.56	0.98	0.61	0.68
	125 m		305	1.71	0.98	0.51	0.61
	125 m		308	1.74	0.88	0.57	0.65

TABLE 21.

LOW-MOLECULAR-WEIGHT HYDROCARBONS FOUND IN THE STOCS MONITORING STUDY DURING THE DECEMBER CRUISE IN 1977.

Station	Depth		Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
1/I	0 m	BTWP	97	4.4	0.90	1.71	0.41
	3 m	BTWQ	96	4.1	0.88	1.63	0.44
	22 m	BTWR	90	3.8	0.90	1.15	0.41
	22 m		96	3.8	0.89	1.25	0.43
	22 m		96	3.6	0.90	1.20	0.42
2/II	0 m	BTYG	75	3.5	0.76	1.34	0.32
	15 m		77	4.5	0.72	1.27	0.26
	25 m		131	3.9	-	-	-
	35 m		245	3.9	-	-	-
	45 m	BTYI	108	4.06	0.28	1.15	0.36
	45 m		113	4.00	0.28	1.08	0.31
	45 m		124	4.30	0.32	1.08	0.30
3/II	0 m	BTZZ	139	3.40	0.32	0.95	0.34
	0 m		147	3.40	0.39	0.95	0.32
	0 m		140	3.40	0.39	1.00	0.32
	15 m		145	3.5	-	-	-
	25 m		154	3.70	0.41	0.95	0.27
	25 m		143	3.70	0.41	0.89	0.25
	25 m		143	3.64	0.42	0.93	0.24
	45 m		175	4.1	-	-	-
	65 m		341	4.8	-	-	-
3/II	85 m		238	3.7	-	-	-
	105 m		280	2.8	-	-	-
	125 m		147	1.8	-	-	-
	130 m	BUAB	228	1.50	0.28	0.47	0.51
	130 m		224	1.50	0.28	0.41	0.54
	130 m		212	1.53	0.26	0.43	0.53

TABLE 22.

LOW-MOLECULAR-WEIGHT HYDROCARBONS FOUND IN THE TOPO HIGH STUDY DURING THE JUNE CRUISE IN 1977.

Station	Depth	Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
Parker/1	0 m	37	7.00	0.24	1.69	0.20
	48 m	71	12.5	-	1.11	0.34
	90 m	183	3.52	0.84	0.52	0.68
Parker/2	0 m	41	7.04	0.24	2.80	0.54
	48 m	48	14.5	0.66	1.43	0.48
	89 m	680	3.25	1.26	0.33	0.48
Parker/3	0 m	43	6.49	0.22	1.99	-
	30 m	51	15.2	0.47	2.30	0.68
	89 m	135	4.24	1.04	0.77	0.49
Parker/4	0 m	44	6.38	0.18	2.34	0.51
	33 m	75	10.8	0.69	1.69	-
	103 m	271	3.52	1.04	0.67	0.51
Three Hickey/1	0 m	160	7.59	1.17	1.56	0.54
	31 m	1580	13.0	58.5	0.70	22.4
	59 m	5410	7.00	45.0	0.65	10.9
Three Hickey/2	0 m	140	9.02	1.44	1.56	0.65
	32 m	469	12.1	21.0	1.30	10.7
	60 m	5320	10.8	34.1	0.39	4.62
Three Hickey/3	0 m	156	6.50	1.41	1.95	0.95
	43 m	1680	15.9	32.4	1.23	12.2
	59 m	3000	7.75	37.5	0.85	9.66

TABLE 22. CONT'D.

Station	Depth	Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
Three	0 m	123	5.75	1.80	1.66	1.26
Hickey/4	29 m	823	13.0	33.6	0.39	16.6
	60 m	4870	7.25	19.2	0.49	4.42
EFG/1	0 m	54	8.00	0.75	2.08	0.51
	30 m	1090	12.0	5.70	1.30	1.73
	115 m	338	0.63	0.97	0.39	-
EFG/2	0 m	138	4.50	0.45	1.50	0.41
	26 m	581	12.3	0.60	1.18	0.34
	110 m	1060	0.55	0.51	0.23	0.68
EFG/3	0 m	34	4.68	0.32	1.04	0.14
	31 m	119	12.5	0.90	1.56	0.24
	103 m	537	0.70	0.96	0.49	1.29
EFG/4	0 m	35	4.50	0.21	1.46	0.14
	31 m	84	13.6	0.60	2.08	0.48
	99 m	595	1.38	1.26	0.40	0.82
WC656/1	0 m	167	8.75	0.66	1.76	0.54
	35 m	602	15.0	1.05	1.63	1.70
	118 m	320	1.25	0.84	0.33	0.68
WC656/2	0 m	58	7.37	0.57	2.54	0.61
	44 m	510	14.4	1.32	1.69	0.88
	88 m	510	2.25	1.47	0.85	0.82

TABLE 22. CONT'D.

Station	Depth	Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
WC656/3	0 m	44	5.50	1.11	1.76	0.88
	33 m	544	15.3	6.60	2.08	3.4
	85 m	782	5.25	2.70	0.71	1.36
WC656/4	0 m	245	5.25	0.99	1.95	0.54
	44 m	3000	9.63	3.45	1.17	1.22
	66 m	1190	3.75	2.40	0.91	1.16

TABLE 23.

LOW-MOLECULAR-WEIGHT HYDROCARBONS FOUND IN THE TOPO HIGH STUDY DURING THE SEPTEMBER CRUISE IN 1977.

Station	Depth	Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
EFG/1	0 m	213	4.95	0.90	0.98	0.54
	40 m	141	10.8	3.30	0.59	1.56
	100 m	373	0.30	0.36	0.38	1.33
EFG/2	0 m	224	5.43	1.23	1.30	0.68
	40 m	3000	11.3	6.21	0.49	1.77
	100 m	374	0.50	0.51	0.36	0.78
EFG/3	0 m	213	5.00	0.93	0.81	0.51
	40 m	544	9.5	1.35	1.04	1.12
	105 m	714	1.3	1.50	1.49	1.50
EFG/4	0 m	167	5.80	0.69	1.17	0.75
	40 m	1160	11.6	4.95	0.91	5.58
	90 m	1090	0.50	1.20	0.36	1.67
Sackett/1	0 m	2060	3.68	2.19	1.49	0.54
	12 m	1040	2.45	5.16	0.78	2.24
	82 m	340	0.70	1.05	0.36	0.88
Sackett/2	0 m	1640	3.30	2.43	1.49	0.88
	12 m	140	4.20	2.34	0.78	0.75
	83 m	221	0.70	0.66	0.33	1.09

TABLE 23. CONT'D.

Station	Depth	Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
Sackett/	0 m	1520	3.13	2.85	1.43	0.75
3	12 m	1010	2.63	6.54	0.85	2.58
Sackett/	0 m	1470	2.20	2.31	1.04	1.09
4	12 m	2280	1.80	4.53	0.85	1.56
	84 m	234	0.50	0.42	0.29	0.61

TABLE 24 .

LOW MOLECULAR-WEIGHT HYDROCARBONS FOUND IN THE TOPO HIGH STUDY DURING THE FEBRUARY CRUISE 1978.

Station	Depth	Methane (nl/L)	Ethene (nl/L)	Ethane (nl/L)	Propene (nl/L)	Propane (nl/L)
EFG/1	0 m	82	1.77	0.32	1.11	0.85
	15 m	96	1.60	0.32	-	-
	118 m	717	0.73	0.54	0.72	1.13
EFG/2	0 m	90	1.51	0.51	0.77	0.81
	15 m	162	1.16	0.35	0.77	0.77
	110 m	590	0.87	0.78	0.60	1.40
EFG/3	0 m	135	1.31	0.35	0.81	1.48
	15 m	113	1.16	0.38	0.85	1.26
	108 m	418	0.93	0.54	0.77	1.08
EFG/4	0 m	113	1.45	0.58	1.02	1.22
	15 m	127	1.65	0.58	1.06	1.26
	115 m	267	1.31	0.61	0.81	1.51

TABLE 25.

Interstitial Light Hydrocarbons and Percent Water in South Texas Shelf Sediments

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (μl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
1/I Feb. 77	5-10	150	151	75	67	54	33.0
28°12'N 96°27'W	15-20	33.7	165	77	112	67	33.6
18 meters	25-30	6.8	135	79	91	71	32.8
	35-40	8.3	196	93	131	80	26.7
	45-50	8.1	140	70	89	65	30.5
	65-70	10.6	235	112	154	88	28.9
	85-90	11.2	178	96	122	86	25.9
2/I Feb. 77	5-10	27.8	114	43	59	46	57.8
27°55'N 96°21'W	15-20	76.0	87	56	70	43	43.6
42 meters	25-30	19.6	107	56	70	47	47.7
	35-40	15.5	126	72	82	46	33.9
	45-50	16.5	114	60	74	37	40.5
	65-70	18.2	94	60	68	37	40.5
	85-90	19.7	68	40	55	29	45.6
	105-110	22.8	126	66	85	37	52.9
	125-130	30.8	85	57	72	42	35.9
	145-150	19.3	176	95	122	57	34.5
	165-170	19.5	149	68	104	43	32.6
3/I Feb. 77	5-10	75.5	60	24	37	34	62.2
27°34'N 96°07'W	15-20	37.7	61	32	42	35	60.2
134 meters	25-30	6.72	89	37	49	36	45.2
	35-40	3.23	80	36	47	37	53.5
	45-50	2.32	56	27	43	33	57.0
	65-70	2.57	80	37	52	36	52.0
	85-90	2.65	84	40	63	35	47.6
	105-110	3.13	61	35	52	35	56.0
	125-130	3.18	74	40	52	32	48.2

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (µl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
4/I Feb. 77 28°14'N 96°28'W 18 meters	5-10	393	154	87	77	51	30.8
	15-20	52.1	147	87	98	57	12.0
	25-30	26.0	139	89	102	55	38.0
	35-40	9.1	130	110	102	68	26.6
	45-50	14.7	211	117	140	79	25.2
	65-70	7.5	179	109	117	68	45.9
	85-90	6.8	177	134	129	81	39.7
	105-110	7.6	139	92	104	60	24.6
5/I Feb. 77 27°45'N 96°14'W 82 meters	5-10	77.6	71	33	50	36	58.7
	15-20	28.5	82	48	60	30	49.3
	25-30	35.4	111	55	66	34	47.1
	35-40	19.4	137	58	84	29	45.5
	45-50	15.4	102	52	68	23	44.7
	65-70	17.6	94	46	76	27	39.8
	85-90	17.2	91	51	48	30	43.3
	105-110	15.8	93	55	67	28	41.7
	125-130	15.7	75	48	58	25	43.4
	145-150	15.7	84	55	67	25	46.5
	165-170	12.7	140	59	91	27	41.7

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (µl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
6/I Feb.77	5-10	157.0	109	35	57	35	58.0
27°39'N 96°12'W	15-20	84.5	80	33	51	37	51.6
100 meters	25-30	49.7	121	44	69	32	48.1
	35-40	39.9	124	43	61	31	41.1
	45-50	27.3	124	49	66	30	47.0
	65-70	16.1	93	44	64	27	40.5
	85-90	17.9	160	64	94	40	47.1
	105-110	18.7	117	57	86	34	45.4
	125-130	21.6	104	51	74	34	53.4
	145-150	17.6	177	74	101	49	52.0
1/II July 77	5-10	104	107	39	23	32	47.3
27°40'N 96°59'W	15-20	232	159	55	53	41	42.0
22 meters	25-30	258	102	37	52	42	38.3
	35-40	212	100	31	43	35	37.8
	45-50	194	94	31	43	42	27.6
	65-70	54.9	75	25	32	32	44.1
	85-90	25.7	129	40	60	62	41.7
	105-110	19.4	88	29	39	29	46.5
2/II July 77	5-10	171	56	14	11	11	49.1
27°30'N 96°45'W	15-20	211	110	33	36	31	44.0
49 meters	25-30	70.7	99	37	44	37	46.3
	35-40	17.9	74	29	36	30	48.3
	45-50	17.0	86	31	47	37	34.2
	65-70	21.1	80	27	39	39	46.1
	85-90	20.0	107	32	49	38	43.9
	105-110	20.1	–	–	–	–	43.3
	125-130	16.9	88	19	24	16	35.9

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (μl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
3/II July 77 27°18'N 96°23'W 131 meters	5-10	3.22	52	12	15	32	63.2
	15-20	2.65	77	22	28	30	57.8
	25-30	2.92	65	20	28	24	53.6
	35-40	2.95	71	25	37	27	54.1
	65-70	4.15	70	19	36	34	52.9
	85-90	4.96	100	27	47	37	52.5
	105-110	6.01	80	26	41	27	50.7
	125-130	5.74	82	25	43	40	49.2
4/II July 77 27°34'N 96°50'W 34 meters	5-10	23.0	104	39	37	18	56.8
	15-20	35.8	83	38	37	32	47.7
	25-30	42.7	104	41	41	39	41.5
	35-40	39.3	70	35	30	35	45.6
	45-50	36.5	75	32	32	33	45.0
	65-70	33.2	94	32	40	38	43.8
	85-90	30.1	99	34	47	38	54.8
	105-110	29.9	97	43	46	38	45.3
	125-130	22.6	75	27	40	43	48.9
5/II July 77 27°24'N 96°36'W 78 meters	5-10	10.1	96	25	31	25	63.3
	15-20	13.6	123	36	42	46	54.6
	25-30	13.1	99	36	49	41	53.3
	35-40	12.3	65	26	28	29	53.9
	45-50	13.1	71	25	35	33	51.4
	65-70	20.0	101	32	58	35	44.6
	85-90	14.8	123	30	53	35	50.8
	105-110	16.6	68	20	35	31	51.8

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (μl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
6/II July 77	5-10	4.28	81	20	31	53	49.3
27°24'N 96°29'W	15-20	4.79	71	20	33	27	50.4
98 meters	25-30	4.35	71	16	36	27	52.6
	35-40	5.08	72	20	36	27	51.9
	45-50	5.23	80	24	40	31	41.9
	65-70	6.57	101	31	49	32	52.8
	85-90	7.23	73	20	28	23	48.9
	105-110	7.53	56	17	27	20	51.5
7/II July 77	5-10	2.77	60	12	15	11	62.6
27°15'N 96°19'W	15-20	1.58	46	14	23	31	55.1
183 meters	25-30	1.64	60	17	26	20	57.4
	35-40	2.05	68	18	34	28	53.6
	45-50	1.76	52	15	24	25	54.0
	65-70	1.96	64	20	33	32	50.5
	85-90	2.59	60	17	28	25	52.8
	105-110	2.85	65	20	40	41	51.7
1/III Nov. 77	5-10	10.19	92	31	37	30	51.8
26°57'N 97°11'W	15-20	21.96	115	49	61	39	44.1
27 meters	25-30	26.12	102	44	48	33	42.5
	35-40	28.80	96	34	42	24	42.4
	65-70	31.52	68	32	37	31	49.4
	105-110	30.90	75	34	42	33	42.4
	145-150	23.65	89	38	50	34	35.7

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (μl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
2/III Nov. 1977 26°57'N 96°48'W 66 meters	5-10	12.22	91	36	31	29	62.0
	15-20	18.73	100	40	32	34	49.7
	25-30	25.71	59	27	17	22	50.6
	35-40	30.82	86	28	20	24	58.0
	45-50	30.68	66	26	23	19	55.7
	75-80	37.69	78	29	31	28	54.8
	105-110	51.51	151	48	47	51	53.5
3/III Sept. 1977 27°03'N 96°34'W 104 meters	20-25	7.41	79	22	17	21	50.4
	40-45	10.07	71	25	26	24	-
	60-65	10.68	60	23	29	20	53.4
	80-85	11.36	112	35	76	41	-
	100-105	15.07	107	35	60	42	54.1
	140-145	12.91	78	28	36	22	-
	170-175	18.48	64	21	32	22	53.7
4/III Sept. 1977 26°56'N 97°16'W 15 meters	5-10	53.02	242	163	107	131	24.4
	15-20	12.32	146	94	77	49	28.7
	25-30	12.49	116	100	68	55	23.1
	35-40	6.93	145	189	95	96	22.5
	45-50	5.55	49	53	5	10	22.9
	55-60	6.36	51	135	10	47	32.8

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (μl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
5/III Nov. 1977	5-10	16.59	94	40	33	29	60.8
26°57'N 97°4'W	15-20	26.11	135	61	57	42	47.4
37 meters	25-30	32.07	83	-	40	40	45.5
	35-40	34.89	107	48	54	42	48.0
	45-50	39.66	89	41	45	37	46.8
	65-70	40.64	67	40	37	30	46.9
	105-110	25.76	87	38	48	35	41.8
6/III Sept. 1977	5-10	6.46	56	21	37	22	56.6
26°57'N 96°31'W	15-20	5.32	76	32	43	27	-
124 meters	25-30	6.44	112	36	61	38	-
	45-50	8.03	70	25	38	25	53.6
	65-70	9.03	51	19	30	22	-
	85-90	10.83	60	21	30	21	-
	105-110	11.70	75	31	42	35	53.4
1/IV Sept. 1977	TOO SANDY TO CORE						
2/IV Sept. 1977	5-10	6.53	122	47	60	46	56.2
26°10'N 96°37'W	15-20	8.28	98	39	46	40	47.8
48 meters	25-30	7.40	92	40	51	43	49.0
	35-40	8.11	91	41	57	44	-
	45-50	11.22	115	49	69	64	41.3
	65-70	15.27	95	48	59	51	-
	85-90	12.04	133	60	78	68	41.8
	105-110	11.00	72	29	38	35	-
	125-130	8.36	116	66	75	66	43.4

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (μl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
3/IV Sept. 1977	5-10	49.66	407	423	257	244	33.9
26°11'N 96°23'W	15-20	66.15	147	451	41	256	28.7
90 meters	25-30	106.00	870	1464	296	758	27.7
	35-40	22.70	126	512	39	244	27.4
	45-50	16.04	191	771	73	368	25.4
4/IV Sept. 1977	5-10	24.98	52	215	9	108	24.9
26°10'N 97°07'W	15-20	23.11	48	254	6	117	23.9
15 meters							
5/IV Sept. 1977	5-10	29.92	60	28	17	16	51.2
26°10'N 96°54'W	15-20	42.70	86	40	46	33	49.4
38 meters	25-30	33.44	63	30	39	30	38.2
	35-40	36.41	72	32	43	29	44.8
	65-70	32.25	96	42	61	38	-
	85-90	35.28	122	58	79	60	43.4
	105-110	20.36	126	53	70	50	-
	145-150	9.57	169	89	88	70	32.9
6/IV Sept. 1977	5-10	8.49	129	71	67	76	39.9
26°10'N 96°30'W	15-20	7.82	146	102	66	78	40.9
62 meters	30-35	11.56	84	110	39	69	36.8
	45-50	9.28	108	98	59	57	-
	65-70	9.00	147	159	100	95	29.8
	75-80	8.61	102	157	64	96	-
	105-110	8.18	106	200	65	112	25.8

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (µl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
7/IV Sept. 1977	5-10	18.53	51	33	26	41	32.4
26°10'N 96°20'W	15-20	13.97	55	27	28	32	40.8
144 meters	25-30	7.75	164	218	91	136	27.9
	35-40	7.33	179	289	104	158	–
	45-50	6.74	155	283	93	220	25.3
	65-70	6.94	193	296	157	183	–
	85-90	11.33	180	242	108	164	23.4
27 Nov. 1977	5-10	9.42	85	35	21	29	45.2
27°44'N 96°59'W	15-20	4.66	118	83	55	31	40.3
16 meters	25-30	8.59	54	25	23	17	29.0
	35-40	14.50	24	13	4	3	44.4
28 Nov. 1977	5-10	6.49	77	–	20	24	47.3
27°41'N 96°59'W	15-20	6.93	174	60	84	60	48.4
19 meters	25-30	10.04	104	48	52	36	29.9
	35-40	11.74	107	68	51	41	37.9
	45-50	7.92	168	62	52	58	39.5
	55-60	11.48	68	32	21	27	53.1
29 Sept. 1977	5-10	19.83	100	38	29	54	49.1
27°37'N 96°56'W	15-20	28.01	118	48	39	55	–
25 meters	25-30	32.39	69	40	40	32	38.0
	35-40	31.33	68	33	35	26	–
	45-50	34.95	113	57	65	43	40.3
	65-70	32.13	70	29	41	20	–
	85-90	33.42	83	45	59	36	36.7
	105-110	25.78	91	41	65	51	–
	125-130	13.28	102	49	56	34	42.4

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (μl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
30 Nov. 1977	5-10	13.01	190	72	67	64	41.8
27°37'N 97°2'W	15-20	16.87	162	52	48	53	52.8
22 meters	25-30	19.84	158	67	69	46	51.8
	35-40	22.04	114	52	63	40	28.4
	45-50	27.40	83	40	39	31	44.3
	65-70	26.10	53	24	25	18	45.4
	85-90	20.14	49	25	21	18	30.5
	105-110	17.62	97	43	48	29	33.9
	145-150	13.38	101	48	48	33	28.4
31 Nov. 1977	10-15	20.83	73	34	30	35	60.4
27°32'N 97°4'W	20-25	31.46	81	40	32	38	30.4
24 meters	35-40	16.70	66	39	30	36	31.9
	45-50	10.24	99	37	48	34	40.6
	65-70	21.84	49	27	26	24	44.6
	85-90	28.25	46	20	23	19	49.5
	105-110	26.40	54	27	27	20	47.0
	165-170	15.62	41	20	21	18	40.5
32 Nov. 1977							
27°25'N 97°6'W	15-20	26.85	80	36	35	30	53.0
25 meters	25-30	39.75	44	18	19	15	61.6
	35-40	72.89	89	40	36	32	45.7
	45-50	20.34	52	22	19	20	46.8
	65-70	37.97	60	28	36	23	40.5

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (µl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
33 Nov. 1977 27°21'N 97°7'W 25 meters	5-10	22.09	91	32	29	35	56.9
	15-20	26.81	100	41	43	39	54.4
	25-30	31.45	140	52	56	37	51.4
	35-40	32.51	122	55	50	37	43.5
	45-50	36.47	110	49	47	34	41.6
	55-60	35.72	70	29	20	12	42.4
34 Nov. 1977 27°17'N 97°9'W 25 meters	5-10	15.48	126	46	38	40	59.2
	15-20	15.91	120	47	50	38	54.7
	25-30	25.79	131	66	48	40	47.0
	35-40	30.20	80	38	43	28	42.7
	45-50	32.69	108	45	46	30	36.7
	65-70	26.13	48	28	10	7	35.9
35 Nov. 1977 27°13'N 97°7'W 26 meters	5-10	12.73	136	45	41	38	55.7
	15-20	30.38	116	49	38	38	57.1
	25-30	29.53	87	41	31	24	49.7
	35-40	30.56	76	35	33	23	49.6
	45-50	30.90	80	39	39	28	38.0
	65-70	33.28	56	28	30	20	48.7
	85-90	34.79	70	32	35	24	45.3
	105-110	18.23	93	25	30	18	45.3
	145-150	34.50	61	24	30	22	30.8

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (μl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
36 Nov. 1977	5-10	13.10	87	42	34	38	46.9
27 10'N 97 11'W	15-20	19.17	85	42	33	32	50.3
26 meters	25-30	19.15	65	37	24	23	49.0
	35-40	24.84	92	44	48	32	42.8
	45-50	30.59	61	37	32	25	43.1
	65-70	36.88	52	29	28	23	41.4
	85-90	34.48	108	59	65	54	45.2
37 Nov. 1977	5-10	13.86	100	35	30	34	58.3
27°7'N 97°11'W	15-20	27.22	85	36	–	27	49.0
26 meters	25-30	21.60	115	40	29	58	46.0
	35-40	22.00	93	36	43	30	44.2
	45-50	19.44	187	89	91	49	43.9
	65-70	19.18	74	26	34	23	45.2
	85-90	17.62	103	42	50	37	47.1
	105-110	15.69	125	52	59	38	42.5
	155-160	8.60	128	51	59	51	35.1
38 Sept. 1977	25-30	11.37	136	117	80	70	27.4
27°5'N 97°15'W	35-40	8.37	211	153	121	96	30.6
18 meters	45-50	15.39	153	77	97	62	24.2
	55-60	9.52	116	77	78	53	48.6
	65-70	10.33	42	67	5	19	24.1

TABLE 25 CONT'D.

STATION/LOCATION Water Depth	DEPTH (cm)	METHANE (µl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
39 Nov. 1977	5-10	12.94	110	36	33	33	55.3
27°3'N 97°15'W	15-20	24.70	71	35	34	30	49.2
26 meters	25-30	23.43	115	47	43	33	30.7
	35-40	30.69	86	39	34	34	39.4
	45-50	31.72	99	47	46	40	33.9
	65-70	22.54	96	43	50	36	34.4
	85-90	23.63	115	56	56	46	41.1
	105-110	18.24	93	49	44	36	43.3
	145-150	10.57	90	39	45	36	33.1
40 Sept. 1977	5-10	7.97	122	39	36	29	52.0
27°23'N 96°51'W	15-20	12.54	109	44	41	32	-
46 meters	25-30	20.03	79	33	29	24	42.6
	45-50	19.40	59	33	32	21	43.7
	65-70	23.47	60	33	35	25	46.5
	85-90	25.64	75	36	38	26	-
	105-110	25.67	74	33	41	25	43.7
	135-140	25.36	58	21	16	8	43.7
41 Nov. 1977	5-10	8.80	97	32	28	52	61.1
27°27'N 96°36'W	15-20	12.32	128	47	49	59	52.5
75 meters	25-30	12.59	122	53	56	59	54.4
	35-40	11.45	244	65	112	78	49.0
	45-50	12.33	63	23	28	29	52.3
	65-70	10.55	76	32	35	37	51.9
	85-90	13.93	69	31	35	30	52.6
	115-120	7.05	171	43	83	47	51.3

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (μl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
42 Nov. 1977 27°23'N 96°36'W 75 meters	5-10	11.43	81	22	19	41	63.9
	15-20	19.01	91	39	37	52	59.2
	25-30	21.50	85	38	40	62	51.4
	35-40	25.57	71	30	29	44	52.9
	55-60	25.91	88	38	44	51	53.6
	75-80	22.97	101	43	49	52	52.0
	105-110	22.84	111	44	57	59	42.3
43 Nov. 1977 27°18'N 96°37'W 77 meters	5-10	9.72	84	29	24	44	60.3
	15-20	15.00	46	26	15	40	47.6
	35-40	19.52	79	39	35	50	56.6
	45-50	21.24	78	36	35	50	54.0
	75-80	36.07	101	42	51	57	55.0
	115-120	19.65	87	34	43	47	57.0
44 Nov. 1977 27°15'N 96°40'W 77 meters	5-10	6.98	63	24	23	36	68.2
	15-20	11.24	99	36	34	58	57.0
	25-30	7.63	261	60	119	77	52.4
	35-40	13.44	82	30	33	37	55.3
	55-60	8.41	29	57	126	65	50.8
	85-90	19.45	80	28	31	35	36.9
	125-130	15.78	236	78	113	84	55.2

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (µl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
45 Nov. 1977	5-10	10.52	83	21	22	33	66.3
27°12'N 96°40'W	15-20	7.79	144	39	29	48	48.6
75 meters	25-30	9.44	216	58	92	77	55.3
	35-40	18.79	89	36	29	43	53.1
	45-50	11.92	194	52	97	56	46.6
	65-70	8.72	189	55	92	53	57.1
	85-90	29.04	105	35	40	39	54.5
	130-135	15.57	63	22	29	24	53.2
46 Nov. 1977	5-10	8.74	75	29	24	39	58.4
27°9'N 96°43'W	15-20	15.52	90	38	34	47	53.7
75 meters	25-30	6.45	188	42	97	48	55.3
	35-40	10.88	269	67	119	76	54.2
	45-50	16.63	110	47	54	47	99.6
	65-70	18.92	110	43	56	37	54.9
	85-90	21.04	32	8	4	3	55.6
47 Nov. 1977	5-10	4.41	91	27	24	20	59.4
27°4'N 96°42'W	15-20	10.16	114	40	32	46	49.5
73 meters	25-30	11.16	93	37	32	47	53.1
	35-40	12.62	86	34	45	38	53.9
	55-60	15.70	52	24	27	33	54.9
	75-80	18.92	51	21	28	28	50.1
	105-110	21.91	62	25	32	27	52.3
	150-155	25.96	79	28	38	30	53.7

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (µl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
48 Nov. 1977	5-10	13.24	217	63	67	64	-
27°1'N 96°46'W	15-20	16.36	133	49	50	50	52.6
70 meters	25-30	18.17	124	44	41	59	51.4
	35-40	22.45	96	35	24	29	56.4
	55-60	14.84	364	79	150	84	55.7
	75-80	21.80	113	37	40	32	52.5
	155-160	19.90	125	29	37	38	51.6
49 Feb. 1977	5-10	6.60	75	26	29	21	67.8
27°23'N 95°58'W	15-20	2.39	55	24	26	16	57.1
397 meters	25-30	2.54	58	28	34	19	60.0
	35-40	2.79	59	28	32	18	75.5
	45-50	3.25	67	29	35	19	69.2
	65-70	3.67	96	35	43	23	53.6
	85-90	3.87	103	36	40	21	51.2
	105-110	3.74	30	23	33	17	55.4
	125-130	4.00	52	26	30	17	56.6
	145-150	4.34	54	30	35	22	55.2
	165-170	3.86	61	25	33	17	66.2

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (µl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
50 Feb. 1977 27°19'N 95°51'W 631 meters	5-10	1.05	60	23	33	26	65.5
	15-20	1.23	64	22	34	33	63.3
	25-30	1.59	63	24	30	25	57.1
	35-40	1.79	90	25	39	26	58.8
	45-50	2.08	96	27	36	22	55.9
	65-70	2.40	81	29	34	29	55.1
	85-90	2.64	82	26	34	27	66.9
	105-110	2.96	78	29	31	26	55.8
	125-130	3.08	83	25	31	26	56.4
	145-150	3.40	55	23	29	25	56.9
51 Feb. 1977 27°16'N 95°46'W 874 meters	5-10	0.44	45	13	34	20	80.9
	15-20	.89	64	15	32	26	61.8
	25-30	1.38	80	19	32	27	60.0
	35-40	1.78	177	20	32	30	62.2
	45-50	2.00	64	20	33	32	60.1
	65-70	2.47	51	17	28	25	59.7
	95-100	2.93	87	20	32	33	66.1
	125-130	3.43	49	19	25	29	57.1
	165-170	4.13	52	18	30	31	56.6
52 Nov. 1977 26°57'N 97°7'W 32 meters	15-20	20.92	74	36	27	29	44.5
	25-30	28.97	61	34	32	26	53.1
	35-40	35.20	61	31	29	26	47.0
	55-60	38.20	52	26	23	23	46.3
	85-90	26.91	56	28	28	26	49.8
	160-165	18.89	78	32	39	33	46.6

TABLE 25 CONT'D.

STATION/LOCATION WATER DEPTH	DEPTH (cm)	METHANE (µl/L)	ETHENE (nl/L)	ETHANE (nl/L)	PROPENE (nl/L)	PROPANE (nl/L)	% WATER
53 Nov. 1977 26°55'N 97°0'W 44 meters	5-10	12.34	103	51	37	31	57.6
	15-20	10.19	49	55	21	33	49.4
	25-30	15.83	129	49	46	44	43.3
	35-40	23.70	80	41	38	30	42.2
	55-60	23.61	87	37	32	30	49.0
	75-80	26.36	64	27	25	28	49.1
	105-110	25.86	88	44	45	33	50.3
	155-160	25.50	67	24	27	30	50.7

APPENDIX C

HIGH-MOLECULAR-WEIGHT HYDROCARBONS IN ZOOPLANKTON, SEDIMENT AND WATER

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TABLE 1

GLC ANALYSES OF ZOOPLANKTON HIGH-MOLECULAR-WEIGHT HYDROCARBON SAMPLES

TABLE 1

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BABL PERIOD : WINTER
LOCATION : STATION - 1 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	3.93000	2229	7.15000
1668	29.70000	2312	4.51000
1700	55.30000	2374	119.00000
1721	17.40000	2543	8.49000
1800	4.62000	2645	106.00000
1820	2.72000	2750	15.60000
1849	.99700	2976	7.04000
1919	55.60000		
2066	23.60000		
2135	17.90000		
2209	3.71000		
2544	3.44000		
TOTAL	218.91700	TOTAL	267.79000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BABQ PERIOD : WINTER
LOCATION : STATION - 1 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1911	4.80000	2228	1.13000
2062	11.10000	2310	.99300
2132	15.50000	2375	135.00000
2206	1.58000	2653	89.10000
2555	10.00000	2751	1.94000
		2959	1.48000
		3084	1.64000
		3193	1.70000
TOTAL	42.98000	TOTAL	232.98300

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BABR PERIOD : WINTER
LOCATION : STATION - 1 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1668	.28000	2127	2.00000
1700	.60600	2361	13.10000
1916	3.39000	2508	1.60000
2074	2.28000	2576	4.22000
2140	1.82000	2673	5.07000
2216	.05180	2758	3.65000
2244	.06120	2844	621.00000
2313	.05200	2925	11.40000
2382	.20100	3042	4.63000
2566	1.54000	3158	33.90000
2670	3.82000	3202	7.30000
2820	.26300	3252	21.90000
		3297	72.30000
		3399	27.50000
TOTAL	14.36500	TOTAL	829.57000

TABLE 1 CONT'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BADG PERIOD : WINTER
LOCATION : STATION - 2 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1472	.46900	1915	9.36000
1531	1.29000	2136	15.10000
1600	10.60000	2198	6.11000
1668	65.30000	2310	8.54000
1700	13.10000	2374	66.90000
1772	1.95000	2750	20.20000
1800	9.46000	2869	10.50000
1845	5.91000	2966	7.79000
1900	9.03000	3102	24.50000
1956	2.28000		
1989	8.80000		
2000	4.35000		
2059	1.68000		
2100	2.47000		
2139	2.73000		
2200	7.04000		
2300	2.22000		
2400	1.55000		
2500	.58200		
2600	4.03000		
2700	1.71000		
2800	.24500		
2900	.69800		
TOTAL	157.49400	TOTAL	169.00000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BAFH
LOCATION : STATION - 3 LINE -I

PERIOD : WINTER

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1400	.12200	1673	8.13000
1500	2.60000	1775	23.70000
1600	2.51000	2027	27.40000
1644	.70600	2159	5.82000
1668	46.30000	2216	36.70000
1700	3.20000	2240	192.00000
1746	1.30000	2266	43.30000
1772	.39400	2335	106.00000
1800	1.79000	2380	190.00000
1846	.87800	2447	75.70000
1900	.44400	2471	219.00000
1924	.77800	2515	21.80000
1954	3.29000	2673	33.70000
1983	7.77000	2774	8.30000
2009	1.56000	2879	54.90000
2053	.59700	3101	56.40000
2100	.50200	3325	14.00000
2162	.90200		
2200	1.11000		
2259	.32300		
2300	.26500		
2384	.95300		
2500	.48400		
2600	.21400		
2700	.41200		
2800	.27900		
2900	.34700		
3000	.21200		
3100	.24700		
3200	.74200		
3263	.71800		
TOTAL	81.94900	TOTAL	1116.85000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BAHV
PERIOD : WINTER
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.52100	2155	8.42000
1668	42.00000	2315	4.57000
1700	6.70000	2376	254.00000
1772	.28300	2467	12.10000
1800	3.10000	2524	21.30000
1846	1.92000	2650	6.54000
1900	3.45000	2758	2.32000
1918	8.25000		
2000	4.69000		
2069	8.65000		
2100	4.34000		
2138	21.90000		
2200	12.70000		
2300	25.30000		
2400	11.30000		
2500	12.50000		
2600	11.10000		
2700	10.90000		
2800	7.70000		
2900	7.58000		
3000	4.32000		
3100	4.19000		
3200	2.94000		
TOTAL	216.33400	TOTAL	309.25000

TABLE I CONT'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BAIB PERIOD : WINTER
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1400	10.00000	1912	2.54000
1448	2.54000	2096	2.30000
1459	1.22000	2154	11.40000
1500	.32600	2243	10.00000
1557	1.04000	2314	9.42000
1600	11.90000	2380	274.00000
1668	105.00000	2646	22.50000
1700	18.40000	2747	16.10000
1772	2.33000	3090	16.70000
1800	10.10000		
1847	5.20000		
1900	3.81000		
1923	11.60000		
2006	13.60000		
2073	11.10000		
2142	20.00000		
2200	7.37000		
2300	2.46000		
2384	.67700		
2400	2.71000		
2500	2.75000		
2600	2.00000		
2700	2.97000		
2800	1.69000		
2900	1.93000		
TOTAL	252.72300	TOTAL	364.96000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BAIC PERIOD : WINTER
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1619	.85600	1915	4.97000
1668	104.00000	2157	14.70000
1700	17.70000	2240	4.17000
1800	1.66000	2324	4.14000
1853	.15300	2395	216.00000
1900	2.14000	2489	11.90000
1918	9.92000	2553	5.29000
1959	.58900	2690	7.44000
1988	3.02000	2789	4.23000
2070	4.09000	3034	10.40000
2139	12.80000	3065	10.20000
2211	1.47000		
2322	.48200		
2468	.63600		
2578	.34100		
2992	3.03000		
TOTAL	162.88700	TOTAL	293.44000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BAJX PERIOD : WINTER
LOCATION : STATION - 2 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1668	22.00000	1866	1.22000
1700	1.86000	1888	2.74000
1800	.22900	2018	2.35000
1915	1.52000	2088	.75300
1946	1.48000	2129	7.46000
1974	6.23000	2243	1.88000
2100	.21300	2293	3.73000
2134	.83800	2359	55.40000
2200	1.58000	2445	8.22000
2300	.69100	2512	5.72000
2400	.78500	2537	3.33000
2445	5.38000	2720	7.95000
3287	1.18000	2858	6.64000
		2928	9.63000
		2950	16.30000
		3026	10.80000
TOTAL	43.98600	TOTAL	144.12300

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BAME PERIOD : WINTER
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1400	1.67000	1781	7.91000
1445	.39600	2028	202.00000
1500	11.10000	2123	18.30000
1600	2.25000	2245	1050.00000
1644	.72000	2262	317.00000
1668	150.00000	2322	136.00000
1700	7.51000	2362	182.00000
1748	2.78000	2467	1050.00000
1800	1.17000	2500	126.00000
1847	.52500	2563	41.10000
1900	.73300	2639	31.30000
1917	1.82000	2667	90.60000
1951	3.32000	2716	14.40000
1980	6.36000	2748	9.81000
2007	1.58000	2775	25.60000
2050	.47600	2854	81.60000
2100	.21700	2897	76.50000
2154	.32100	3027	3.74000
2190	1.26000	3068	6.51000
2304	.10400	3177	237.00000
2378	2.93000		
2500	.06370		
2600	.14400		
2700	.10500		
2800	.09790		
2900	.22000		
3000	.13100		
3100	.11600		
3226	1.36000		
3281	2.11000		
TOTAL	201.58960	TOTAL	3707.37000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BARL PERIOD : WINTER
LOCATION : STATION - 1 LINE -III

HEXANE ELUATE RETENTION INDEX	HEXANE ELUATE CONCENTRATION (UG./G.)	BENZENE ELUATE RETENTION INDEX	BENZENE ELUATE CONCENTRATION (UG./G.)
1668	2.50000	2043	1.34000
1740	2.72000	2153	2.34000
1772	.06420	2240	.98200
1800	.30800	2259	.49300
1820	.12800	2311	2.67000
1897	1.94000	2375	104.00000
1917	8.58000	2553	.27900
1985	1.87000	2650	33.80000
2067	4.42000	2751	6.58000
2137	6.19000	2967	1.08000
2240	.72700	3089	2.58000
2551	8.22000		
2657	.95100		
TOTAL	38.61820	TOTAL	156.14400

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BARQ　　　　　　PERIOD : WINTER
LOCATION : STATION - 1 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1400	14.10000	1755	.37000
1444	1.74000	2005	.27300
1500	.32700	2146	.44700
1557	3.76000	2403	.95300
1600	15.60000	2566	1.38000
1647	4.15000	2668	7.39000
1668	53.10000	2827	.98800
1700	50.50000	2933	1.24000
1722	14.80000		
1772	.32900		
1800	4.51000		
1819	1.68000		
1848	1.20000		
1899	8.72000		
1917	33.50000		
1966	3.18000		
1983	1.56000		
2000	1.87000		
2069	10.70000		
2134	10.30000		
2200	1.16000		
2280	.18200		
2301	.27200		
2400	.31600		
2500	.19800		
2550	6.01000		
TOTAL	243.76400	TOTAL	13.04100

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BARR PERIOD : WINTER
LOCATION : STATION - 1 LINE -III

HEXANE ELUATE RETENTION INDEX	 CONCENTRATION (UG./G.)	BENZENE ELUATE RETENTION INDEX	 CONCENTRATION (UG./G.)
1400	6.63000	1687	1.54000
1445	.90300	1793	.97100
1500	.18400	2042	2.11000
1600	5.88000	2147	10.10000
1647	1.97000	2221	8.58000
1668	45.30000	2304	2.08000
1700	47.90000	2367	82.80000
1723	12.40000	2432	1.67000
1772	.31700	2461	2.42000
1800	4.45000	2560	8.12000
1819	2.09000	2671	64.40000
1850	1.20000	2770	6.74000
1900	9.90000	2884	2.26000
1917	33.40000	2948	.54800
1966	2.68000	2948	5.50000
1984	1.12000	3068	26.70000
1999	.53900		
2068	11.90000		
2133	4.45000		
2200	1.59000		
2235	.38000		
2300	.53400		
2400	1.90000		
2431	.95400		
2500	3.80000		
2592	2.76000		
2700	.94700		
2760	6.07000		
2884	4.82000		
2933	2.83000		
3000	3.88000		
3048	3.13000		
3093	1.86000		
3192	.30200		
3318	.91000		
TOTAL	229.88000	TOTAL	226.53900

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BATG   PERIOD : WINTER
LOCATION : STATION - 2 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1400	28.30000	2096	2.53000
1446	7.01000	2139	5.76000
1500	10.10000	2206	2.53000
1562	.93900	2250	4.89000
1600	16.60000	2316	8.49000
1668	77.90000	2377	78.20000
1700	8.07000	2450	9.84000
1772	1.56000	2746	7.07000
1800	6.14000	3090	35.20000
1850	2.82000		
1900	1.80000		
1927	1.52000		
1959	2.43000		
1988	11.80000		
2059	2.07000		
2100	.97000		
2200	1.74000		
TOTAL	181.76900	TOTAL	154.51000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BAXJ PERIOD : WINTER
LOCATION : STATION - 2 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	1.26000	1908	8.76000
1600	.68700	2152	4.22000
1668	51.70000	2255	1.49000
1700	3.31000	2308	2.89000
1772	.89400	2368	45.90000
1800	2.24000	2444	10.50000
1847	1.06000	2513	6.16000
1900	3.64000	2727	9.44000
1922	2.97000	2863	1.83000
1953	5.08000	2964	1.95000
1984	22.20000	3131	6.58000
2064	.80700		
2100	1.48000		
2141	1.48000		
2200	1.36000		
2300	2.62000		
2386	.95100		
2400	1.19000		
2450	1.33000		
2500	1.99000		
2600	.39700		
2700	.76600		
2800	.47500		
2900	.60200		
TOTAL	110.48900	TOTAL	99.72000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BAXK PERIOD : WINTER
LOCATION : STATION - 2 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.46700	1906	6.64000
1600	.23700	2043	1.62000
1668	44.70000	2090	1.51000
1700	3.17000	2150	5.96000
1772	.09690	2230	1.05000
1800	.68900	2259	1.26000
1853	.32500	2307	3.00000
1900	.99500	2369	52.90000
1923	2.47000	2446	8.43000
1954	4.12000	2514	8.07000
1985	19.00000	2725	8.76000
2139	.96500	3109	6.57000
2200	.63900		
2387	1.50000		
2442	3.61000		
TOTAL	82.98390	TOTAL	105.77000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BAVG PERIOD : WINTER
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	2.77000	1982	1.54000
1600	.21200	2270	4.59000
1668	10.60000	2294	7.14000
1700	2.68000	2394	30.20000
1753	.40300	2445	74.70000
1800	.45900	2516	1.92000
1849	.13600	2536	12.00000
1900	1.04000	2614	1.46000
1919	1.94000	2636	2.21000
1956	1.40000	2764	1.51000
1985	3.25000	2852	3.08000
2047	.41600	2926	6.26000
2071	.22300	2973	1.58000
2163	.36700	3187	4.72000
2200	.76600	3259	14.10000
2300	.20200		
2390	.29300		
2500	.17900		
2600	.15200		
2700	.24800		
2800	.15900		
2900	.45400		
3000	.13300		
3100	.23800		
3219	1.75000		
3274	4.97000		
TOTAL	35.44000	TOTAL	167.01000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BAXE PERIOD : WINTER
LOCATION : STATION - 1 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1566	1.29000	1889	2.61000
1668	222.00000	2040	1.97000
1700	56.80000	2096	1.72000
1772	1.11000	2156	8.86000
1800	.61300	2200	2.58000
1879	11.00000	2246	9.18000
1900	21.10000	2321	19.60000
1938	3.75000	2404	618.00000
1968	20.60000	2482	10.20000
2053	20.20000	2542	6.09000
2126	36.90000	2677	65.30000
2200	1.96000	2771	22.80000
2239	1.31000	2873	19.40000
2300	4.97000	2937	20.80000
2400	3.62000	3050	54.60000
2464	1.13000		
2500	8.37000		
2571	5.92000		
2600	14.30000		
2700	15.80000		
2765	.87500		
2800	17.60000		
2863	1.66000		
2900	19.60000		
2936	.58200		
3000	14.60000		
3100	13.10000		
3200	11.50000		
3300	6.38000		
3400	4.07000		
3500	2.21000		
3600	.79800		
TOTAL	545.71800	TOTAL	863.71000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BAZD PERIOD : WINTER
LOCATION : STATION - 2 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	1.05000	1680	.10300
1600	.33200	1707	.47000
1668	69.30000	1778	.63300
1700	10.40000	1868	.44200
1772	1.79000	1886	2.18000
1800	1.16000	1943	.13500
1829	.71700	2016	.70400
1900	1.49000	2073	.72600
1901	2.62000	2128	1.51000
1938	2.66000	2183	.34100
1972	13.00000	2232	1.27000
2031	3.27000	2292	7.25000
2100	.62200	2367	124.00000
2134	7.47000	2453	7.79000
2200	1.55000	2519	3.96000
2246	1.17000	2592	.49500
2300	.09660	2654	1.02000
2361	.14400	2742	8.41000
2400	.82600	2819	1.48000
2470	2.60000	2864	.21500
2500	.38300	2916	.21000
2579	.20300	2944	2.50000
2600	.22900	2969	18.10000
2652	.04690	3018	36.90000
2700	.90100	3225	.36800
2765	.31800		
2800	1.37000		
2900	2.38000		
3000	2.13000		
3100	2.96000		
3200	2.88000		
3300	2.43000		
3355	.69300		
3400	1.74000		
3500	.93600		
TOTAL	141.86750	TOTAL	221.21200

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BBBD
LOCATION : STATION - 3 LINE -IV

PERIOD : WINTER

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1400	2.51000	2093	10.20000
1500	14.50000	2320	9.13000
1600	3.10000	2374	64.70000
1668	87.80000	2444	11.30000
1700	12.50000	2535	7.31000
1744	1.09000	2723	5.23000
1772	.32900	3088	19.20000
1800	1.35000		
1850	1.12000		
1900	1.14000		
1925	4.89000		
1958	5.98000		
1988	17.40000		
2016	4.68000		
2100	.42500		
2147	.41000		
2174	.73200		
2200	2.22000		
2300	.26000		
2400	.15000		
2500	.15300		
2600	.38300		
TOTAL	163.12200	TOTAL	127.07000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BIYO PERIOD : SPRING
LOCATION : STATION - 1 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1997	.167	1806	.195
2000	.209	2040	.362
2060	.655	2435	.174
2100	.121	2632	.358
2121	.240	2758	.185
2200	.194	2812	.188
2225	.307	3089	.629
2300	.186		
2400	.321		
2428	.106		
2500	.307		
2600	.293		
2656	.190		
2700	.309		
2800	.293		
2900	.387		
3000	.233		
3100	.267		
3181	.274		
3200	.158		
3300	.312		
3400	.285		
3500	.224		
3600	.463		
3700	.476		
3800	.470		
3900	.247		
TOTAL	7.694	TOTAL	2.091

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJAQ PERIOD : SPRING
LOCATION : STATION - 2 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1800	.03080	2070	.06570
1851	.28800	2124	.06380
1939	.03680	2173	.03110
2000	.03600	2415	.08510
2046	.10600	2598	.08300
2100	.04860	2723	.02790
2200	.22100	2829	.02840
2254	.03270	3079	.03140
2300	.77700	3201	.16800
2400	.86100		
2461	.02390		
2500	1.85000		
2559	.03430		
2600	1.77000		
2660	.07610		
2700	1.49000		
2755	.05170		
2800	1.06000		
2860	.04380		
2900	.71800		
2958	.03670		
3000	.45100		
3100	.21700		
3143	.02830		
3200	.11600		
3300	.08230		
3400	.05240		
TOTAL	10.53940	TOTAL	.58440

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJAV PERIOD : SPRING
LOCATION : STATION - 2 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1467	.93600	2004	.90600
1500	9.94000	2128	2.66000
1600	.57900	2223	2.64000
1668	77.60000	2253	.49200
1700	5.57000	2460	5.10000
1745	.54400	2522	.44200
1772	.22400	2621	1.03000
1800	1.57000	2682	.32000
1847	.60000	2719	.95200
1900	1.85000	3058	3.14000
1924	.53600		
1953	1.14000		
2000	1.93000		
2054	.30000		
2100	1.42000		
2161	.44300		
2200	1.54000		
2265	.16300		
2300	1.32000		
2367	.19500		
2400	1.01000		
2465	.39300		
2500	1.11000		
2600	1.06000		
2700	1.21000		
2800	1.26000		
2900	1.33000		
3000	1.26000		
3100	1.30000		
3200	.75800		
3300	.87700		
TOTAL	119.96800	TOTAL	17.68200

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJAW PERIOD : SPRING
LOCATION : STATION - 2 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	10.70000	2019	.62800
1600	.60200	2130	2.62000
1668	63.10000	2208	2.38000
1700	15.20000	2356	4.50000
1729	2.70000	2422	1.15000
1772	.44200	2497	.38100
1800	1.07000	2537	.74700
1834	.32900	2818	.47200
1900	1.47000	2854	.50100
1909	.82000	3041	1.31000
1942	1.81000		
1998	.79500		
2000	1.03000		
2057	.58900		
2100	.99700		
2160	.62200		
2200	1.09000		
2300	1.50000		
2369	.70400		
2400	1.25000		
2467	.41000		
2500	1.47000		
2568	.15500		
2600	1.26000		
2678	2.69000		
2700	1.42000		
2800	1.39000		
2900	1.37000		
3000	1.04000		
3100	.95800		
3200	.28700		
3276	.36200		
3300	.26100		
TOTAL	119.89300	TOTAL	14.68900

TABLE I CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : 3KCT
PERIOD : SPRING
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1400	1.14000	1936	.22800
1500	30.70000	1970	.09910
1600	1.43000	2040	.43800
1668	24.10000	2094	.75200
1700	18.40000	2150	1.80000
1722	.54100	2176	.24300
1772	.95400	2201	.13900
1800	1.78000	2227	.48800
1839	.92900	2260	.66500
1900	1.52000	2313	.28100
1915	.60400	2375	7.23000
1945	1.50000	2458	5.55000
1995	2.95000	2530	14.60000
2100	1.87000	2602	.68200
2165	.42700	2647	.13500
2200	1.98000	2759	1.73000
2275	.37500	2836	1.04000
2300	2.48000	2929	.36100
2380	.74700	3064	18.10000
2400	2.10000		
2500	2.40000		
2588	.38100		
2600	2.29000		
2700	2.98000		
2800	2.96000		
2900	3.22000		
3000	2.49000		
3100	3.40000		
3200	2.68000		
3300	2.20000		
3400	1.86000		
3500	2.81000		
3600	3.36000		
TOTAL	129.55800	TOTAL	54.56110

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJEX PERIOD : SPRING
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1772	2.24000	1907	.30500
1800	3.72000	1942	.40600
1837	1.22000	2017	.62900
1900	3.58000	2138	3.47000
1918	.84100	2223	1.26000
1941	1.28000	2238	.53900
2000	3.00000	2260	.20400
2037	2.35000	2386	2.46000
2100	2.27000	2461	.43100
2133	1.28000	2552	.20400
2200	2.39000	2612	.21400
2300	1.84000	2702	.18700
2400	1.64000	2803	.42300
2500	1.75000	2873	.40800
2600	1.94000	2907	.55000
2700	2.24000	3005	.91900
2800	2.74000	3048	.60300
2900	3.75000	3077	1.58000
3000	5.05000	3111	.49800
3100	6.69000	3154	.35400
3200	8.34000	3250	1.84000
3300	9.21000		
3400	10.10000		
3500	40.60000		
3600	28.70000		
TOTAL	148.76100	TOTAL	17.48400

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJHA PERIOD : SPRING
LOCATION : STATION - 2 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	1.06000	2135	.46500
1600	.45000	2217	.53900
1668	19.60000	2263	.24300
1700	1.84000	2375	.47800
1726	.12500	2428	.39000
1800	.49800	2823	.50100
1830	.26500		
1900	.47600		
1939	.07840		
2000	.21000		
2056	1.33000		
2100	.24700		
2157	.52800		
2200	.70600		
2300	1.57000		
2364	.41500		
2400	2.15000		
2500	3.14000		
2564	.38600		
2600	3.26000		
2676	2.70000		
2700	3.43000		
2800	2.81000		
2900	1.93000		
3000	1.14000		
3100	.85100		
3200	.44300		
3285	.98300		
TOTAL	52.62140	TOTAL	2.61600

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJHG PERIOD : SPRING
LOCATION : STATION - 2 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	11.50000	2002	.36300
1600	.53000	2022	.22900
1668	38.20000	2131	.53500
1700	4.13000	2213	.61600
1743	.90900	2240	.18900
1772	.22300	2259	.22100
1800	.61800	2350	.13200
1844	.43800	2370	.27000
1900	1.14000	2425	.27000
1944	.61600	2819	.80000
2000	.35800	3012	.24800
2056	1.93000	3040	.24400
2100	.54800	3093	.22500
2125	.24400		
2154	.93800		
2200	.40200		
2255	.32300		
2300	.84100		
2356	1.25000		
2400	.35000		
2454	.25900		
2500	.51700		
2556	.56800		
2600	.34000		
2653	.13400		
2700	.35200		
2800	.28800		
2900	.35200		
3000	.25900		
3100	.30400		
TOTAL	68.86100	TOTAL	4.34200

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJHI PERIOD : SPRING
LOCATION : STATION - 2 LINE -II

HEXANE ELUATE RETENTION INDEX	HEXANE ELUATE CONCENTRATION (UG./G.)	BENZENE ELUATE RETENTION INDEX	BENZENE ELUATE CONCENTRATION (UG./G.)
1500	9.78000	2016	.24400
1600	.33500	2125	.45800
1668	28.10000	2208	.89600
1700	4.75000	2235	.51500
1740	.57000	2343	.90200
1772	.28300	2420	.64800
1800	.52800	2446	.32100
1848	.27600	2554	.33200
1900	1.09000	2814	1.51000
1920	.47500	3008	.18600
1952	1.03000	3035	.18900
1982	1.12000	3088	.32400
2000	.40400	3141	.40000
2056	3.20000		
2100	.58900		
2140	.92700		
2159	1.89000		
2200	2.07000		
2300	.68000		
2362	1.32000		
2400	.50200		
2454	1.81000		
2500	1.01000		
2565	1.08000		
2600	.71000		
2700	.51000		
2800	.40800		
2900	.65800		
3000	.52300		
3100	.71400		
3147	.55900		
3200	.61600		
3300	.41000		
TOTAL	68.92700	TOTAL	6.92500

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJJF
PERIOD : SPRING
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.45800	2131	2.42000
1600	.35900	2213	4.59000
1629	.11200	2241	2.65000
1668	17.00000	2315	2.70000
1700	2.76000	2370	2.71000
1720	.26900	2426	1.71000
1772	.02630	2448	6.72000
1800	.41800	2522	.93500
1824	.32800	2818	1.42000
1883	.02630	3038	1.06000
1901	.27600	3095	.93800
1933	1.41000		
1964	2.11000		
2049	.47400		
2100	.32500		
2150	.57700		
2200	.47300		
2300	.74000		
2362	1.01000		
2400	.33200		
2457	.20600		
2500	.38800		
2562	.37100		
2600	.32800		
2700	.41000		
2800	.30400		
2900	.49800		
3000	.38200		
3100	.33600		
TOTAL	32.70660	TOTAL	27.85300

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJOK
LOCATION : STATION - 3 LINE -II

PERIOD : SPRING

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	1.04000	2244	.13600
1600	.27900	2344	.28800
1620	.14200	2408	.16400
1668	22.30000	2527	.16900
1700	4.71000		
1729	.48400		
1772	.33500		
1800	1.08000		
1848	.48500		
1900	1.94000		
1945	.84300		
1976	.63400		
2000	1.35000		
2060	1.59000		
2100	1.62000		
2164	1.10000		
2200	2.08000		
2278	.22500		
2300	1.75000		
2373	.17500		
2400	1.25000		
2500	1.64000		
2571	.27100		
2600	1.55000		
2700	1.47000		
2800	1.32000		
2900	1.75000		
3000	1.45000		
3100	1.82000		
3200	1.61000		
3300	1.35000		
TOTAL	59.64300	TOTAL	.75700

TABLE 1 CONT'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJOL PERIOD : SPRING
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE RETENTION INDEX	HEXANE ELUATE CONCENTRATION (UG./G.)	BENZENE ELUATE RETENTION INDEX	BENZENE ELUATE CONCENTRATION (UG./G.)	
1500	6.36000	1454	.41500	
1600	3.28000	1671	2.96000	Pr
1611	1.52000	1701	.85300	C
1631	1.89000	2026	.30700	
1668	45.10000	2125	1.89000	-
1700	15.00000	2193	.98300	
1727	3.83000	2284	.56800	
1772	3.07000	2331	3.79000	C_{20}:16
1800	5.44000	2383	1.20000	
1834	5.76000	2423	.79300	
1900	6.11000	2487	1.10000	
1940	5.08000	2535	.29500	
1972	3.57000	2581	.36500	
2000	5.58000	2648	.23500	
2049	10.20000	2686	.40900	
2100	6.30000	2762	.18800	
2136	4.08000	2799	.30700	
2156	5.10000	2933	1.34000	
2200	9.22000			
2263	4.45000			
2300	6.93000			
2369	4.21000			
2400	6.31000			
2465	3.89000			
2500	7.25000			
2600	6.35000			
2700	6.21000			
2800	5.77000			
2900	5.66000			
3000	4.21000			

1 CONT.'D
TABLE (CONTINUED)

```
3100            3.99000
3200            2.60000
3300            2.49000
3400            1.77000
3500            1.14000

TOTAL         219.72000        TOTAL          17.99800
```

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJME PERIOD : SPRING
LOCATION : STATION - 1 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.68500	2136	.79400
1600	.35600	2218	.53400
1668	29.90000	2248	.51900
1700	3.63000	2356	1.12000
1772	.15400	2428	.33000
1800	.68800	2470	.37800
1832	.41600	2567	.39500
1900	1.25000	2767	.23600
1907	.42400	2825	.15100
1939	.92100	2910	.16600
1969	1.24000		
2000	.82900		
2046	1.36000		
2100	.80800		
2155	.68200		
2200	1.03000		
2300	.86900		
2394	.49800		
2400	.93700		
2500	1.12000		
2600	1.24000		
2700	1.35000		
2800	1.23000		
2900	1.18000		
3000	.84600		
3100	1.21000		
3200	.56800		
3300	.56800		
3400	.49200		
3500	.33500		
TOTAL	56.81600	TOTAL	4.62300

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJOF PERIOD : SPRING
LOCATION : STATION - 2 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	1.44000	1742	.23200
1600	.45800	1790	.03520
1668	31.00000	2204	.06950
1700	8.56000	2292	.29700
1732	1.58000	2354	.06930
1772	.83700	2381	.14200
1800	1.47000	2459	.23300
1847	.86900		
1900	2.10000		
1912	.54900		
1944	1.42000		
1974	1.29000		
2000	1.45000		
2056	2.29000		
2100	1.49000		
2158	1.81000		
2188	.77900		
2200	1.45000		
2300	1.62000		
2363	.81100		
2387	.49000		
2400	1.55000		
2454	.74700		
2500	1.98000		
2565	.64200		
2600	1.90000		
2700	1.96000		
2800	1.80000		
2900	2.06000		
3000	1.80000		
3100	2.00000		
3200	1.84000		
3300	1.83000		
3400	1.80000		
TOTAL	85.67200	TOTAL	1.07800

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJQH PERIOD : SPRING
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	4.02000	2020	.42100
1600	.45900	2130	.83400
1641	.13200	2212	.88000
1668	9.88000	2257	.79600
1700	5.78000	2368	.63100
1742	.20600	2423	.62800
1772	.05190	2819	1.08000
1800	.41800	3096	.38800
1844	.29700		
1900	1.19000		
1947	.08100		
2000	.32500		
2056	1.21000		
2100	.45300		
2140	.59500		
2200	.31400		
2300	.49200		
2355	.83100		
2400	.21100		
2500	.24000		
2554	.21900		
2600	.18900		
2700	.29300		
2800	.19100		
2900	.34200		
TOTAL	28.41990	TOTAL	5.65800

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJSI PERIOD : SPRING
LOCATION : STATION - 1 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	8.34000	1909	.76300
1600	1.06000	2019	1.56000
1668	31.10000	2129	5.49000
1700	6.18000	2210	.63800
1772	.10500	2256	.56500
1800	1.01000	2347	3.30000
1868	.63400	2462	.65200
1900	1.55000	2558	1.02000
1981	1.33000	2758	.62300
2000	1.94000	2900	.39300
2083	1.48000	3006	.29900
2100	1.43000	3094	1.55000
2167	1.13000	3361	.60100
2188	1.71000		
2200	2.06000		
2288	2.50000		
2300	1.90000		
2382	1.48000		
2400	1.14000		
2500	1.08000		
2600	1.78000		
2700	.86500		
2800	.97500		
2900	1.33000		
3000	1.40000		
3100	2.35000		
3200	4.23000		
3300	10.50000		
3400	18.40000		
3500	23.60000		
3600	22.70000		
TOTAL	157.28900	TOTAL	17.45400

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJUJ PERIOD : SPRING
LOCATION : STATION - 2 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	7.25000	1999	.18600
1600	.43200	2021	.31500
1668	38.30000	2130	.64900
1700	6.82000	2212	.70000
1727	.46900	2239	.32400
1772	.06560	2257	.27300
1800	.56700	2350	.15200
1846	.18100	2371	.38600
1900	.88000	2423	.38800
1941	.45900	2447	.37900
2000	.50800	2816	.67800
2055	.73100	2874	.27900
2100	1.16000	3040	.49300
2154	.96500	3090	.30800
2200	.61600		
2300	.95400		
2365	1.03000		
2400	.62000		
2453	.79500		
2500	.93100		
2557	.50000		
2600	.50900		
2700	.34600		
2800	.25500		
2900	.44600		
3000	.07640		
3100	.15700		
TOTAL	66.02300	TOTAL	5.51000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJUO PERIOD : SPRING
LOCATION : STATION - 2 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1400	.26300	1588	2.69000
1500	25.50000	1780	9.86000
1600	1.24000	1999	30.70000
1668	37.80000	2107	4.80000
1700	8.26000	2133	6.18000
1800	.70600	2222	155.00000
1900	.84900	2246	51.50000
2000	.61900	2321	65.20000
2100	.61500	2377	6.61000
2153	.48900	2431	45.00000
2200	.64900	2453	75.20000
2300	.88500	2630	4.13000
2357	.91400	2651	5.92000
2400	.41500	2820	18.70000
2500	.52400	3013	7.51000
2600	.31800	3039	4.95000
2700	.33600	3226	3.41000
TOTAL	80.38200	TOTAL	497.36000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJUP PERIOD : SPRING
LOCATION : STATION - 2 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	3.63000	1805	10.10000
1600	.23800	2013	443.00000
1668	11.00000	2057	32.60000
1700	2.14000	2099	77.60000
1800	.19000	2146	10.90000
1900	.11300	2207	1580.00000
1952	.48200	2225	517.00000
1981	.48300	2283	153.00000
2000	.09430	2307	26.30000
2100	.15200	2330	24.70000
2200	.49600	2392	389.00000
2300	.25500	2413	518.00000
2548	.60600	2452	55.20000
		2481	23.00000
		2519	35.30000
		2552	13.40000
		2598	23.60000
		2625	44.80000
		2680	6.38000
		2747	24.40000
		2843	96.90000
		3344	94.70000
TOTAL	19.87930	TOTAL	4199.88000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BJWL
PERIOD : SPRING
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1400	2.34000	2136	1.20000
1500	11.30000	2214	2.15000
1600	23.50000	2317	.87000
1604	4.31000	2369	.88100
1624	2.21000	2427	1.19000
1668	107.00000	2824	.31900
1700	48.10000	2872	1.15000
1772	8.08000	2908	.92100
1800	55.70000	3017	.49700
1839	14.50000		
1900	58.80000		
1944	16.60000		
1975	8.44000		
2000	56.30000		
2031	9.68000		
2050	4.89000		
2100	74.60000		
2158	7.18000		
2200	80.00000		
2300	63.20000		
2374	6.54000		
2400	49.80000		
2500	45.00000		
2600	25.40000		
2700	15.40000		
2800	14.10000		
2900	13.40000		
3000	11.30000		
3100	9.65000		
3200	7.14000		
3300	5.32000		
3400	5.75000		
3500	4.47000		
TOTAL	870.00000	TOTAL	9.17800

TABLE 1 CONT'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : 808X PERIOD : FALL
LOCATION : STATION - 1 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.29500	2024	379.00000
1600	.53900	2071	25.30000
1668	15.20000	2122	73.80000
1700	12.10000	2176	9.73000
1772	.09210	2275	1910.00000
1800	.65100	2345	189.00000
1900	1.58000	2387	28.40000
1947	.31000	2470	1050.00000
1975	.48300	2514	42.10000
2000	.35400	2544	24.50000
2045	.27000	2573	22.60000
2100	.32600	2666	70.30000
2137	.60500	2711	9.59000
2200	.66500	2763	30.10000
2300	1.49000	2846	43.70000
2400	2.21000	2955	25.50000
2500	2.96000	2997	17.00000
2600	3.02000	3065	56.10000
2671	9.05000		
2700	2.97000		
2800	2.35000		
2900	2.48000		
3000	1.70000		
3100	1.40000		
3200	1.69000		
3276	42.50000		
3371	1.54000		
TOTAL	108.83010	TOTAL	4006.72000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : 80CC PERIOD : FALL
LOCATION : STATION - 1 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	4.84000	2195	.40600
1668	110.00000	2585	.22100
1700	66.90000	2979	.19300
1772	2.90000	3250	.14700
1800	7.47000		
1846	9.15000		
1900	5.40000		
1943	1.85000		
2000	3.72000		
2048	5.81000		
2100	2.38000		
2137	11.00000		
2200	3.70000		
2252	2.24000		
2300	2.31000		
2400	2.63000		
2454	.67100		
2500	3.57000		
2600	3.95000		
2700	5.14000		
2800	3.99000		
2900	6.45000		
3000	4.20000		
3100	5.52000		
3200	4.89000		
3300	2.96000		
3400	2.99000		
TOTAL	286.63100	TOTAL	.96700

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BOCD PERIOD : FALL
LOCATION : STATION - 1 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.59300	2219	.42400
1668	7.72000	2282	.35700
1700	24.50000	2347	26.50000
1800	10.90000	2757	.33500
1900	.81800	2991	.32900
2000	6.18000	3062	.83500
2100	1.07000	3188	.78600
2200	3.09000		
2300	1.28000		
2400	1.45000		
2500	1.93000		
2600	1.20000		
2623	.39500		
2691	.65000		
2716	.49300		
2882	1.33000		
2909	.36000		
3000	.56600		
3064	1.56000		
3141	.71400		
3246	2.17000		
3336	2.28000		
TOTAL	71.24900	TOTAL	29.56600

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BODX PERIOD : FALL
LOCATION : STATION - 2 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1668	.61600	1777	1.93000
1700	.07560	1806	.56100
1899	.04650	2134	.55200
2137	.09440	2232	1.21000
		2317	.89100
		2342	.41900
		2445	1.13000
		2520	.23400
		2658	.77300
		3059	.28800
		3266	1.45000
TOTAL	.83250	TOTAL	9.43800

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : 80FZ PERIOD : FALL
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1668	4.57000	2153	.25700
1700	3.65000	2250	1.41000
1772	.10500	2336	.39000
1800	.92400	2364	.29600
1900	.73900	2477	3.76000
2000	.81500	2628	1.62000
2100	.53200	2683	.76900
2200	.74100	2833	1.26000
2300	.67100	3202	1.22000
2400	.58000	3330	2.06000
2500	.63400		
2528	.63900		
2600	.68500		
2700	1.08000		
2800	.80300		
2900	1.90000		
3000	1.06000		
3100	1.47000		
3200	1.17000		
3300	.87200		
3400	4.21000		
TOTAL	27.85000	TOTAL	13.04200

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : 8OIO PERIOD : FALL
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.18100	2137	2.11000
1600	1.41000	2211	1.96000
1668	142.00000	2235	.85100
1700	1.20000	2274	2.54000
1762	.25000	2305	.42600
1772	.05010	2338	22.60000
1800	1.01000	2406	1.44000
1847	.16700	2441	1.83000
1874	.08330	2510	.68000
1900	.48700	2759	.36100
1946	.20300	3023	10.50000
1972	.39100	3269	2.12000
2000	.63800		
2051	.75100		
2100	.53100		
2144	.88700		
2200	.57600		
2300	.24400		
2400	.18200		
2448	.49200		
2500	.30800		
2600	.21500		
2626	.13000		
2726	.83000		
2902	.10800		
3023	1.01000		
3109	.18700		
3191	.25800		
3295	.96400		
3392	1.28000		
TOTAL	157.02340	TOTAL	47.41800

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : 8OIU PERIOD : FALL
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	2.15000	1997	177.00000
1600	.22500	2043	15.50000
1668	99.90000	2093	46.50000
1700	.82600	2269	2260.00000
1759	.43000	2334	320.00000
1772	.35400	2479	1580.00000
1800	.85000	2645	97.10000
1863	.18700	2827	53.00000
1900	.78000	3058	82.40000
1944	.38200		
1969	.56700		
2000	.64200		
2050	.44000		
2100	.47200		
2143	.46800		
2200	.86900		
2300	.60600		
2400	.49500		
2450	.19300		
2500	.41300		
2600	.38000		
2700	.07990		
2800	.02390		
2900	.16800		
3000	.31400		
3100	.42700		
3280	.30500		
3376	.71300		
TOTAL	113.65980	TOTAL	4631.50000

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BOIV PERIOD : FALL
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.23600	1668	.16000
1668	132.00000	2987	4.96000
1700	6.35000	3150	.78500
1772	.59800	3235	1.42000
1800	1.11000		
1900	.36200		
2000	.43700		
2045	.41600		
2100	.19900		
2200	.35400		
2300	.26100		
2400	.11500		
2500	.10900		
TOTAL	142.54700	TOTAL	7.32500

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BOKQ
PERIOD : FALL
LOCATION : STATION - 2 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.22200	1679	5.63000
1600	.17200	2027	.11400
1668	43.20000	2140	3.08000
1700	5.95000	2238	4.02000
1800	.19100	2312	.32100
1900	1.23000	2351	3.24000
1949	.80000	2447	1.51000
1977	2.28000	2520	.45400
2100	.07740	2775	2.31000
2139	12.20000	2839	.14400
2300	.21100	3063	6.29000
2381	1.23000		
2500	.16600		
2600	.18500		
2700	.23500		
2800	.16800		
2900	.29700		
3000	.16800		
3100	.19700		
3176	.14400		
3245	.10700		
TOTAL	69.43040	TOTAL	27.11300

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BOMU PERIOD : FALL
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	1.88000	2016	1.01000
1600	1.28000	2075	.90400
1644	2.72000	2121	2.95000
1668	44.70000	2186	3.29000
1700	19.00000	2205	5.25000
1772	.13700	2229	3.22000
1800	1.45000	2277	1.13000
1845	3.63000	2306	9.66000
1900	.54900	2340	10.60000
1947	1.73000	2370	1.26000
1975	1.57000	2413	5.55000
2000	1.18000	2433	5.33000
2046	2.46000	2468	1.98000
2100	.71900	2505	4.03000
2139	4.09000	2546	1.79000
2200	1.11000	2567	1.36000
2251	1.53000	2601	1.21000
2300	.72700	2672	.97000
2400	1.43000	2700	.86100
2444	2.20000	2730	2.12000
2500	.65400	2762	1.98000
2600	1.05000	2806	1.94000
2662	.18000	2828	1.82000
2700	1.29000	2969	1.03000
2800	.88000	3006	6.52000
2900	2.01000	3054	20.90000
3000	1.01000	3150	1.76000
3046	.21700	3273	3.84000
3100	2.16000		
3200	1.47000		
3300	.66900		
3400	3.34000		
TOTAL	109.02200	TOTAL	104.26500

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BOPQ PERIOD : FALL
LOCATION : STATION - 1 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1668	20.20000	2027	.89400
1700	2.44000	2129	.89700
1772	.08510	2220	.01260
1800	.75700	2244	.34000
1849	1.98000	2295	.45800
1900	.15700	2359	6.69000
1935	.40700	2459	.67900
2000	.46900	2570	1.31000
2049	1.27000	3055	.86700
2100	.09030	3260	.29300
2133	.40200		
2200	.18500		
2253	.48700		
2300	.09640		
2400	.23700		
2453	.25600		
2500	.16400		
2600	.41300		
2700	.72500		
2800	.38400		
2900	.76900		
3000	.24300		
3100	.69700		
TOTAL	32.91380	TOTAL	12.44060

TABLE 1 CONT'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BOPV PERIOD : FALL
LOCATION : STATION - 1 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.10300	1752	1.01000
1668	36.70000	2083	.28600
1700	5.23000	2208	2.13000
1772	.04270	2269	10.90000
1800	.38300	2288	22.50000
1900	.11600	2386	17.70000
1949	.34300	2491	12.10000
1977	.40100	2514	6.68000
2100	.04080	2591	.35000
2136	.62800	2716	2.27000
2200	.18600	2899	.53000
2300	.19300	3126	7.74000
2379	.30400		
2442	.66300		
2500	.16700		
2600	.19000		
2700	.20700		
2800	.13900		
2900	.35300		
3000	.10500		
3056	.55900		
3100	.13600		
3316	.16100		
TOTAL	47.35050	TOTAL	84.19600

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : 80PW
PERIOD : FALL
LOCATION : STATION - 1 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	1.21000	2192	.14300
1668	16.40000	2262	.75400
1700	3.17000	2322	.02930
1800	1.13000	2359	1.89000
1900	.11900	2457	3.41000
1945	.10300	2554	4.37000
1971	.08770	2652	4.74000
2000	.36300	2729	12.40000
2100	.12200	2829	.01830
2200	.12900	2845	4.14000
2300	.11500	2942	3.33000
2400	.14600	3040	2.51000
2500	.13400	3141	1.14000
2600	.12300	3260	.80700
2700	.09570	3369	33.60000
2800	.11700		
TOTAL	23.56440	TOTAL	73.28160

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BORQ PERIOD : FALL
LOCATION : STATION - 2 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.94800	2202	.02970
1600	.37900	2646	.02010
1668	98.50000	2752	.05810
1700	3.66000	2867	.02590
1772	.07170	2971	.05370
1800	1.71000	3020	.02730
1900	2.13000	3120	.11400
1911	1.75000	3189	.04870
1943	4.15000	3371	.02100
1970	9.23000		
2000	2.22000		
2100	1.67000		
2104	.69400		
2139	2.01000		
2200	1.81000		
2300	1.38000		
2348	.10100		
2372	.35200		
2400	.96900		
2500	1.25000		
2552	.33700		
2600	1.57000		
2700	1.89000		
2761	.54000		
2800	1.49000		
2900	3.38000		
3000	2.36000		
3100	4.60000		
3178	1.03000		
3200	2.31000		
3300	2.69000		
3369	9.11000		
TOTAL	166.29170	TOTAL	.39850

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BOTS PERIOD : FALL
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	2.29000	2006	9.07000
1600	2.05000	2082	.57100
1645	2.42000	2112	2.45000
1668	111.00000	2216	79.80000
1700	73.70000	2317	18.10000
1772	2.80000	2355	13.00000
1800	6.62000	2427	32.00000
1845	7.07000	2446	31.30000
1900	3.80000	2495	4.39000
1918	5.02000	2524	5.43000
1948	15.90000	2567	4.21000
1976	17.60000	2635	1.16000
2046	4.59000	2757	4.94000
2100	3.12000	2827	16.50000
2200	3.00000	2936	.83900
2253	1.15000	2995	2.65000
2300	2.61000	3063	54.90000
2400	2.04000	3156	1.14000
2445	5.49000		
2500	1.92000		
2600	2.16000		
2700	2.19000		
2800	1.65000		
2900	2.22000		
3000	2.11000		
3100	1.59000		
3200	1.64000		
3300	2.16000		
TOTAL	289.91000	TOTAL	282.45000

TABLE 1 CON'T.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : 30VP PERIOD : FALL
LOCATION : STATION - 1 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.06790	2174	.02360
1668	24.40000	2293	.04880
1700	1.18000	2331	.08370
1772	.59500	2369	.04390
1800	.80900	2755	.03790
1839	.62800	2953	.05130
1900	.74300	3188	.03990
1923	.23400	3326	.30000
1946	.10600	3354	.05590
2000	.73800		
2015	.18300		
2100	.83000		
2121	.33600		
2200	1.74000		
2300	.92800		
2350	.11800		
2400	1.00000		
2432	.08660		
2500	1.13000		
2571	.20100		
2600	1.86000		
2688	.09370		
2700	2.10000		
2789	.67400		
2800	2.20000		
2900	2.87000		
3000	2.47000		
3100	3.40000		
3200	2.23000		
3300	2.52000		

TABLE 1 (CONTINUED)

```
   3400          2.02000
   3500          4.13000
   3600         13.10000
   3700         22.00000
   3800         23.70000
   3900         17.20000

  TOTAL        138.62120          TOTAL              .68500
```

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : 80VU PERIOD : FALL
LOCATION : STATION - 1 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.35200	1678	.24700
1600	.41500	1987	21.30000
1668	24.00000	2043	1.81000
1700	.81700	2091	5.25000
1739	.07200	2146	1.38000
1772	.16400	2215	256.00000
1800	.43200	2304	38.10000
1862	.37500	2356	4.66000
1900	.05060	2426	178.00000
1916	.03810	2473	4.80000
1945	.47500	2513	2.24000
1971	.86000	2536	1.57000
2000	.28700	2634	12.30000
2100	.09510	2681	1.12000
2140	.24600	2725	1.65000
2200	.15500	2826	7.61000
2300	.13400	2929	.26700
2400	.12000	3054	11.00000
2500	.13800	3263	1.90000
2600	.07850	3345	.39000
2700	.03900		
2896	.20200		
3041	.06660		
3091	.20300		
3189	.11600		
3284	.35700		
3377	.42900		
TOTAL	30.71690	TOTAL	551.59400

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BOVV PERIOD : FALL
LOCATION : STATION - 1 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1668	14.20000	1668	.34900
1700	.94500	2018	.20600
1772	.30400	2124	.38300
1800	.34000	2208	1.25000
1847	.38000	2340	.38600
1900	.11000	2421	.74700
1945	.42000	2473	.18100
2000	.36600	2632	.11300
2046	.27100	2841	.31900
2100	.11000	3004	.78700
2144	.40400	3066	.83800
2200	.09120	3157	.20500
2237	.02680	3214	.21400
2266	.09430	3283	.22700
2300	.17300		
2398	.14000		
2400	.16700		
2466	.38000		
2500	.13200		
2600	.06560		
2700	.14000		
2800	.57300		
2900	.45300		
3000	.32900		
3047	.03420		
3100	.54000		
3200	.98600		
3300	.46200		
3600	.76700		
3700	2.09000		
3800	3.64000		
3900	4.37000		
4000	6.09000		
TOTAL	39.59410	TOTAL	6.20500

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : BOXP PERIOD : FALL
LOCATION : STATION - 2 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	1.28000	1644	.29000
1600	.65900	1680	1.13000
1668	58.90000	1843	.23500
1700	1.05000	1948	.09860
1772	.47000	2105	.31400
1800	.70900	2176	6.86000
1847	.49400	2241	.24100
1900	.96900	2296	7.41000
1930	.67100	2344	.11000
1959	.73100	2400	1.31000
2000	.63100	2448	.27900
2030	.25800	2609	.07690
2100	.51200	2711	.02720
2128	2.31000	2744	.59100
2200	.49800	2816	.81600
2300	.40200	2919	.09120
2400	.27800	2958	.36300
2500	.26800	3025	.90500
2600	.77600	3197	.49900
2700	.18400	3332	.04910
2800	.08710	3364	1.68000
2900	.29800		
3000	.27600		
3024	.35600		
3062	.18100		
3334	1.04000		
TOTAL	74.28810	TOTAL	23.37600

TABLE 1 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : ZCT
SAMPLE CODE : 8OZR PERIOD : FALL
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	1.11000	1459	.24400
1668	21.90000	1804	.23100
1700	24.90000	2002	.17700
1800	1.09000	2102	.21200
1954	.85800	2136	.30100
1982	.38300	2167	.31500
2305	.30400	2235	.20100
3062	2.03000	2308	.20000
		2403	.43300
		2502	.23800
		2548	.33000
		2601	.20300
		2648	.37600
		2704	.26900
		2755	.26000
		2803	.74500
		2857	.19500
		2920	.23400
		2967	.42800
		3004	.28800
		3132	3.91000
		3202	.35300
		3301	.35200
		3366	.77700
		3396	3.62000
TOTAL	52.57500	TOTAL	14.89200

TABLE 2

GLC ANALYSES OF PARTICULATE HIGH-MOLECULAR-WEIGHT HYDROCARBON WATER SAMPLES

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : 8ABC PERIOD : WINTER
LOCATION : STATION - 1 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2700	.00751	1811	.00017
2800	.00853	1975	.00201
2900	.01590	2014	.00290
3000	.06130	2063	.00019
3100	.01230	2103	.01280
3200	.02160	2309	.00027
3300	.00335	2369	.00318
		2572	.00256
		2759	.00352
		2827	.01860
		2971	.02920
		3076	.00068
		3183	.03050
TOTAL	.13049	TOTAL	.10658 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BACX
PERIOD : WINTER
LOCATION : STATION - 2 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2300	.00042	2033	.00072
2400	.00052	2368	.00097
2750	.00098	2723	.00277
2900	.00363	2812	.00481
3000	.00148	3108	.02750
3200	.00115	3205	.59200
TOTAL	.00818	TOTAL	.62877

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STUCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BAEY
PERIOD : WINTER
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2100	.00090	2348	.02110
2300	.00021	2821	.02780
2353	.03260	3004	.04010
2400	.00168	3035	.03690
3000	.00027	3139	.27700
3039	.01210	3379	.01480
3100	.00023		
TOTAL	.04799	TOTAL	.41770 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BAFM PERIOD : WINTER
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1670	.00046	2000	.00183
2000	.00044	2335	.06890
2144	.00415	2410	.00176
2188	.00094	2506	.00116
2200	.00069	2805	.00776
2242	.00025	2947	.00480
2300	.00040	3023	.03490
2500	.00541	3131	.01160
2600	.00092	3205	.00068
2700	.00178		
2800	.00162		
2900	.00346		
3000	.00288		
3100	.00188		
3200	.00229		
3300	.00125		
TOTAL	.02882	TOTAL	.13339

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BAFO
PERIOD : WINTER
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00014	1898	.00200
1670	.00071	2007	.00247
1700	.00026	2338	.05870
1780	.00004	2476	.00473
1800	.00009	2513	.00279
1900	.00079	2584	.00227
2000	.00041	2761	.00793
2200	.00950	2810	.00567
2300	.00214	2878	.00634
2400	.00169	2954	.02110
2500	.01170	3025	.03260
2600	.00611	3132	.00743
2700	.00221	3141	.00433
2800	.00162		
2900	.00300		
3000	.00138		
3100	.00139		
3200	.00091		
3300	.00072		
TOTAL	.04481	TOTAL	.15836 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BAHG PERIOD : WINTER
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.01190	1919	.00009
1600	.00604	1965	.00280
1670	.00183	2058	.00488
1700	.00048	2151	.00185
1780	.00025	2201	.02440
1800	.00287	2325	.00171
1900	.00363	2353	.02710
2000	.00223	2463	.00681
2100	.00197	2712	.06370
2200	.02380	2859	.03310
2300	.07610	3094	.19000
2400	.13700	3254	.07510
2500	.16900		
2600	.16500		
2700	.16100		
2800	.10500		
2900	.08010		
3000	.06580		
3100	.07620		
3200	.05630		
3300	.12100		
3400	.03340		
3500	.02960		
TOTAL	1.33050	TOTAL	.43154 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BAHJ PERIOD : WINTER
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2300	.00212	2084	.00088
2400	.00334	2090	.00098
2500	.00438	2127	.00214
2600	.00483	2151	.00048
2700	.00774	2160	.00110
2800	.00581	2162	.00040
2900	.00736	2185	.00040
3000	.00647	2206	.00141
3100	.00285	2257	.00357
3200	.00418	2258	.00309
3300	.00019	2277	.00736
3400	.00016	2390	.00126
		2435	.00053
		2503	.00053
		2532	.00227
		2546	.00820
		2583	.00096
		2628	.00229
		2728	.00376
		2832	.00277
		2929	.00607
		3027	.00676
		3117	.02280
		3157	.00135
		3213	.01310
		3245	.00060
TOTAL	.04943	TOTAL	.09506

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BAHL PERIOD : WINTER
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00023	2305	.00889
1670	.00080	2306	.01030
1700	.00159	2308	.01110
1780	.00089	2314	.04000
1800	.00154	2315	.00322
1900	.00207	2337	.00096
2000	.00108	2343	.10000
2100	.00121	2392	.00431
2133	.01280	2394	.00770
2200	.00178	2430	.03000
2300	.00075	2583	.00691
2400	.00091	2708	.00772
2500	.00139	2756	.00216
2600	.00081	2831	.01270
2700	.00061	2896	.01630
2800	.00104	2969	.02800
2900	.00313	3020	.00649
3000	.00186	3127	.15300
3100	.00245	3234	.72400
3200	.00165	3375	.00570
3300	.00116		
TOTAL	.03975	TOTAL	1.17946

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BAJO PERIOD : WINTER
LOCATION : STATION - 2 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1900	.00063	2046	.00171
2000	.00267	2316	.00109
2100	.00130	2377	.01480
2200	.01540	2704	.00078
2300	.00559	3050	.10400
2400	.00391	3181	.00290
2500	.00634		
2600	.00495		
2700	.02710		
2800	.03550		
3157	.21900		
3345	42.10000		
TOTAL	42.42239	TOTAL	.12528

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BALV
LOCATION : STATION - 3 LINE -II

PERIOD : WINTER

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2400	.00106	2378	.00093
2700	.00564	3113	.01870
2867	.01700	3179	.41000
3066	.00259		
3300	.00770		
TOTAL	.03399	TOTAL	.42963

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BARC PERIOD : WINTER
LOCATION : STATION - 1 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2200	.00346	2228	.00078
2300	.01090	2308	.00063
2400	.02240	2372	.02850
2500	.00113	2606	.00047
2600	.15300	2689	.00382
2700	.19700	2785	.00717
2800	.20600	2846	.01250
2900	.25500	2899	.00518
3000	.14800	2956	.02170
3100	.11300	3057	.03050
3200	.09380	3188	.00950
3300	.09320	3300	.00256
3400	.19600		
TOTAL	1.49289	TOTAL	.12331

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BASX PERIOD : WINTER
LOCATION : STATION - 2 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1680	.00196	2037	.00246
1800	.00096	2182	.00265
1875	.00267	2298	.00223
2100	.00087	2358	.03330
2300	.00266	2888	.02700
2400	.00241	2981	.02740
2600	.00245	3042	.03010
2700	.00442	3086	.03140
2800	.00433	3113	.01820
2900	.00719	3177	.17800
3000	.00839		
3100	.01050		
3200	.01480		
3300	.05120		
3400	.05940		
TOTAL	.17421	TOTAL	.35274

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BAUX　　　PERIOD : WINTER
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2300	.00027	2050	.00050
2400	.00024	2368	.00148
2500	.00030	2491	.00156
2600	.00036	2590	.00172
2700	.00033	2686	.00213
2800	.00036	2833	.02400
2900	.00040	2981	.02290
3000	.00044	3051	.03420
3100	.00044	3166	.05210
		3261	.00916
TOTAL	.00314	TOTAL	.14975 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BAVL   PERIOD : WINTER
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2100	.00552	2375	.00025
2200	.00478	2750	.00086
2300	.02100	2842	.00121
2400	.04140	3053	.00237
2500	.05280	3166	.00335
2600	.05260		
2700	.05840		
2800	.03600		
2900	.02730		
2981	.00944		
3000	.03010		
3100	.06070		
3200	.03360		
3217	.03180		
TOTAL	.46544	TOTAL	.00804 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BAVN PERIOD : WINTER
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2300	.00201	2051	.00036
2400	.00049	2295	.00064
2700	.00128	2436	.00113
2800	.00184	2742	.00131
2900	.00404	2837	.00158
3000	.00453	3047	.00092
3100	.00850	3148	.02540
3200	.00546		
3300	.00378		
TOTAL	.03193	TOTAL	.03134

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BAWV PERIOD : WINTER
LOCATION : STATION - 1 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2100	.00341	2045	.00284
2800	.00068	2138	.00044
3000	.00055	2234	.00386
3100	.00452	2300	.00061
3200	.00344	2362	.02440
		2445	.00067
		2679	.00119
		2750	.00049
		2838	.00238
		2890	.00175
		2947	.00182
		3048	.01290
		3155	.00996
		3326	.00035
TOTAL	.01260	TOTAL	.06366

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BAXM
LOCATION : STATION - 1 LINE -IV

PERIOD : WINTER

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2772	.00152	3129	.00193
2916	.00060	3207	.00361
3200	.01950	3319	.00132
3300	.00897		
TOTAL	.03059	TOTAL	.00686

TABLE 2 CONT'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : 8AXO
PERIOD : WINTER
LOCATION : STATION - 1 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2500	.00233	1942	.00102
2600	.02520	2054	.00028
2700	.00335	2665	.01180
2800	.00125	2694	.00817
3200	.00451	3050	.01200
3300	.00186	3075	.01270
3364	.00180	3143	.03610
		3292	.19600
		3320	.08350
TOTAL	.04030	TOTAL	.36157

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BAYU
LOCATION : STATION - 2 LINE -IV

PERIOD : WINTER

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2100	.00045	2049	.00050
2400	.00041	2300	.00064
2800	.00036	2355	.00500
2900	.00042	2725	.04990
3000	.00049	2847	.05090
3100	.00057	3062	.24900
3200	.00060	3167	.00711
TOTAL	.00330	TOTAL	.36305

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : 8BAU
PERIOD : WINTER
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1670	.00053	2047	.00051
1700	.00166	2352	.00349
1780	.00025	3046	.00900
1800	.00037	3141	.11800
1900	.00042		
2000	.00014		
2100	.00036		
2200	.00035		
2300	.00035		
2400	.00035		
TOTAL	.00478	TOTAL	.13100 ✓

TABLE 2 CONT

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BIYF   PERIOD : SPRING
LOCATION : STATION - 1   LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1673	.00060	2031	.00900
1700	.00142	2247	.00085
1800	.00377	2351	.00378
1900	.00247	3055	.00871
2000	.00151	3163	.03650
2100	.00096	3254	.00758
2200	.00150		
2200	.00128		
2300	.00122		
2359	.00135		
2400	.00103		
2500	.00062		
TOTAL	.01773	TOTAL	.06642

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJAH PERIOD : SPRING
LOCATION : STATION - 2 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00386	1964	.01670
1670	.00453	2071	.00139
1700	.00842	2186	.00493
1780	.00164	2216	.00246
1800	.00448	2296	.00873
1900	.00061	2329	.00282
2000	.00457	2385	.00124
2100	.00330	2440	.00540
2200	.00298	2520	.00020
2300	.00201	2649	.00292
2354	.00360	2736	.00132
2400	.00180	2772	.00020
2482	.00344	2987	.01330
2500	.00164	3024	.04040
2600	.00075	3128	13.20000
2605	.00315		
2700	.00289		
2716	.00179		
2800	.00540		
2900	.00219		
3000	.02210		
3100	.01800		
3200	.00544		
TOTAL	.10859	TOTAL	13.30201

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : 3KCK PERIOD : SPRING
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00655	2039	.01660
1600	.00269	2117	.00408
1670	.00160	2242	.03860
1700	.06690	2332	.03610
1730	.00339	2374	.01340
1800	.00470	2421	.01030
1900	.00363	2474	.01720
2000	.00189	2545	.00877
2100	.00149	2697	.00500
2200	.00197	3089	.00617
2300	.00212	3198	.74200
2359	.00147	3381	.00185
2400	.00201		
2500	.00278		
2600	.00340		
2700	.00459		
2800	.00476		
2900	.00627		
3000	.00800		
3100	.01350		
3200	.00888		
TOTAL	.15259	TOTAL	.90007

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BKCZ PERIOD : SPRING
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00105	1720	.00221
1670	.00128	2046	.01250
1700	.03702	2135	.00361
1780	.00126	2258	.00838
1800	.00293	2283	.00249
1900	.00298	2364	.00181
2000	.00221	2438	.00050
2100	.00197	2461	.00045
2200	.00226	2502	.00785
2300	.00327	2642	.00207
2400	.00380	2706	.00162
2500	.00506	2827	.00226
2600	.00665	3110	.00222
2700	.00667	3202	.73300
2800	.00199		
2900	.00715		
3000	.00605		
3108	.00431		
3200	.01670		
TOTAL	.11459	TOTAL	.78097 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BKDB PERIOD : SPRING
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1530	.00125	1683	.00474
1549	.00360	1791	.00051
1600	.00294	1896	.00052
1670	.00206	1998	.00057
1700	.01980	2036	.01190
1780	.00283	2100	.00125
1800	.00319	2151	.00032
1900	.00069	2254	.00868
1935	.00331	2282	.00174
2000	.00028	2358	.00077
2100	.00262	2390	.00201
2200	.00212	2488	.01040
2272	.00208	2806	.00462
2300	.00349	3037	.00684
2400	.00313	3069	.00128
2419	.00321	3163	.10400
2500	.00294	3246	.00018
2533	.00347		
2600	.00294		
2642	.00380		
2700	.00379		
2767	.00232		
2800	.00247		
2839	.00800		
2900	.00388		
2926	.00453		
2944	.00352		
3000	.00426		
3023	.00171		
3100	.00060		
3200	.00441		
TOTAL	.10924	TOTAL	.16033

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJEN PERIOD : SPRING
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00170	1487	.00091
1600	.00268	2043	.00380
1670	.00254	2362	.00103
1700	.00403	2509	.00048
1780	.00510	2569	.00081
1800	.00392	2774	.00048
1855	.00047	3104	.01100
1900	.00274	3193	1.01000
2000	.00226		
2100	.00168		
2200	.00119		
2300	.00132		
2400	.00177		
2500	.00048		
2600	.00071		
2700	.00037		
2800	.00176		
2900	.00078		
3000	.00051		
3100	.00151		
3118	.00033		
3200	.01500		
3394	.00009		
TOTAL	.05294	TOTAL	1.02851 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJGR
PERIOD : SPRING
LOCATION : STATION - 2 LINE -II

HEXANE ELUATE RETENTION INDEX	HEXANE ELUATE CONCENTRATION (UG./G.)	BENZENE ELUATE RETENTION INDEX	BENZENE ELUATE CONCENTRATION (UG./G.)
1500	.00748	1466	.00114
1600	.00493	2033	.00346
1654	.02030	2248	.00112
1700	.00486	2355	.00616
1800	.00715	2629	.00379
1835	.00132	2833	.00344
1900	.00607	3044	.00831
1946	.00034	3160	.21400
2000	.00460	3245	.01250
2033	.00172	3351	.00304
2100	.00399		
2200	.00405		
2260	.00215		
2300	.00647		
2361	.00251		
2400	.00630		
2470	.00096		
2500	.01070		
2600	.01110		
2700	.00962		
2794	.00664		
2800	.00341		
2900	.01510		
3000	.01930		
3063	.00309		
3100	.00529		
3200	.03720		
3341	.00020		
TOTAL	.20685	TOTAL	.25696

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJIW
LOCATION : STATION - 3 LINE -II

PERIOD : SPRING

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.01300	1552	.04650
1600	.01620	1871	.00233
1626	.00761	2030	.00935
1670	.01090	2166	.01170
1700	.02170	2259	.00879
1780	.00233	2365	.00673
1800	.01510	2496	.00346
1857	.00351	2748	.01570
1900	.06150	2814	.00425
2053	.00464	2891	.00344
2100	.00910	3003	.14300
2149	.00590	3082	5.20000
2200	.03990	3205	.14400
2300	.07400	3301	.01770
2365	.00675		
2400	.15500		
2500	.23700		
2600	.26800		
2700	.77100		
2800	.42800		
2900	.53500		
3000	.58500		
3100	.72300		
3200	.77700		
3312	6.79000		
TOTAL	11.56114	TOTAL	5.61695

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJJM PERIOD : SPRING
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1578	.02530	1616	.00098
1600	.00798	1900	.00173
1611	.00083	1945	.00107
1677	.00629	2059	.00916
1700	.01790	2168	.00488
1784	.00240	2242	.00625
1800	.00822	2281	.01630
1900	.00146	2359	.01010
2000	.00816	2387	.05640
2100	.00478	2425	.01760
2105	.00119	2465	.02400
2200	.00419	2544	.00728
2300	.00108	2746	.00123
2314	.00613	3017	.00035
2400	.00242	3057	.00251
2435	.01290	3090	.00103
2500	.01870	3215	1.25000
2600	.00085		
2700	.01920		
2800	.01930		
2900	.02110		
3000	.01280		
3100	.01070		
3110	.01460		
3166	.00034		
3200	.00424		
TOTAL	.23306	TOTAL	1.41087

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJJO
PERIOD : SPRING
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1700	.00484	2033	.00629
1900	.00103	2356	.00321
2300	.00079	2704	.00200
2357	.00183	2827	.00239
2400	.00051	3163	.31200
TOTAL	.00900	TOTAL	.32589

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJLV PERIOD : SPRING
LOCATION : STATION - 1 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1428	.02750	1509	.01150
1600	.00561	1611	.00161
1670	.00409	1680	.00144
1700	.02410	1710	.00833
1780	.00942	1784	.00126
1800	.00663	1810	.00060
1900	.00170	1908	.00159
1925	.00561	1931	.00083
2000	.00386	2008	.00115
2100	.00265	2038	.02200
2200	.00306	2104	.00095
2212	.00298	2178	.00879
2239	.00064	2248	.00533
2262	.00093	2294	.00557
2300	.00313	2354	.03770
2360	.00100	2501	.00770
2400	.00281	2705	.00085
2500	.00240	2742	.00067
2600	.00310	2773	.00148
2700	.00258	2829	.00385
2800	.00620	2887	.00095
2900	.02360	2943	.00368
3000	.02530	3114	.16100
3100	.02900	3251	.11700
3200	.06970		
3383	.00106		
3393	.00137		
TOTAL	.27003	TOTAL	.40583 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJNW
LOCATION : STATION - 2 LINE -III

PERIOD : SPRING

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00287	1464	.00296
1700	.00653	2033	.00735
1780	.00219	2248	.00156
1800	.00431	2351	.01280
1851	.00059	2499	.00581
1900	.00526	2704	.00232
2000	.00397	3057	.00202
2056	.00652	3159	.32500
2100	.00305		
2153	.00231		
2200	.00318		
2258	.00176		
2300	.00353		
2359	.00125		
2400	.00279		
2466	.00151		
2500	.00209		
2593	.00342		
2600	.00100		
2700	.00618		
2791	.00477		
2800	.00374		
2900	.00791		
2904	.00239		
3000	.01490		
3100	.01100		
3113	.00458		
3200	.21300		
3380	.00028		
TOTAL	.32688	TOTAL	.35982

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJPY PERIOD : SPRING
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00867	1679	.00121
1670	.00897	1782	.00193
1700	.02100	1810	.00179
1770	.00023	2061	.01130
1780	.00090	2131	.00168
1800	.01370	2167	.00115
1818	.00665	2198	.00031
1900	.00298	2222	.00035
2000	.01920	2257	.01530
2019	.00044	2304	.00996
2093	.00949	2333	.00769
2100	.00126	2391	.00966
2147	.00516	2445	.28900
2169	.00093	2487	.03800
2200	.00799	2568	.00526
2238	.00074	2643	.03710
2260	.00053	2713	.00185
2300	.01000	2780	.00231
2400	.00291	2821	.00104
2411	.02250	2873	.00223
2472	.00574	3140	.01040
2500	.05170	3179	.01710
2600	.01470	3272	3.16000
2612	.09640		
2700	.14800		
2800	.18700		
2900	.24200		
3000	.28700		
3100	.30000		
3196	.23700		
3200	.13000		
3285	.04210		
3329	.10700		
TOTAL	1.99289	TOTAL	3.62662

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJQN PERIOD : SPRING
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00757	2058	.01210
1642	.00781	2159	.00224
1700	.00617	2255	.00049
1731	.01580	2293	.00459
1780	.00038	2409	.00557
1800	.00296	2483	.00143
1845	.00829	2560	.00278
1900	.00175	2699	.00339
2000	.01430	2765	.00153
2100	.00558	2811	.00034
2200	.00281	2860	.00225
2289	.00036	2898	.00614
2300	.00566	3051	.01000
2317	.00033	3101	.03090
2400	.00865	3159	.00239
2455	.00184	3250	1.05000
2500	.02090	3364	.07590
2592	.00676		
2600	.03280		
2700	.04280		
2723	.00110		
2800	.00065		
2900	.05270		
3000	.20900		
3100	.10800		
3196	.18400		
3200	.14200		
3237	.06200		
3255	.12200		
3291	.03310		
3300	.05380		
3326	.23900		
TOTAL	1.40087	TOTAL	1.21204 ✓

TABLE

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJQP PERIOD : SPRING
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00474	1833	.00111
1600	.00093	2031	.00035
1670	.00173	2059	.02630
1700	.00408	2165	.00084
1800	.00288	2293	.00976
1900	.00248	2326	.00309
2000	.00105	2407	.00631
2100	.00072	2557	.00490
2200	.00128	2762	.00300
2300	.00110	2808	.00054
2356	.00198	2880	.00319
2400	.00093	3157	.04950
2500	.00052	3279	9.77000
2900	.00757		
3000	.00490		
3100	.00932		
3200	.00226		
TOTAL	.04847	TOTAL	9.87889

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : 8JSA PERIOD : SPRING
LOCATION : STATION - 1 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.02150	2034	.00455
1600	.00730	2242	.00079
1670	.00358	2342	.01800
1700	.00914	2495	.00241
1780	.00430	2704	.00114
1800	.00765	3084	.00982
1900	.01210	3196	.00881
2000	.00390		
2036	.00291		
2100	.00234		
2200	.00907		
2300	.02830		
2361	.00055		
2400	.05720		
2500	.07980		
2600	.09210		
2700	.21100		
2800	.14800		
2900	.18700		
3000	.19600		
3100	.26100		
3200	.26500		
3304	1.44000		
TOTAL	3.04974	TOTAL	.04552 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJUA PERIOD : SPRING
LOCATION : STATION - 2 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00487	1451	.00847
1600	.00292	2032	.01110
1670	.00235	2119	.00092
1700	.02960	2158	.00085
1780	.00394	2206	.00166
1800	.00518	2287	.00678
1900	.00662	2344	.00464
2000	.00241	2415	.00676
2100	.00166	2495	.00794
2200	.00439	2625	.00511
2293	.00884	2706	.00355
2300	.00407	2839	.01270
2400	.01280	2954	.00305
2500	.01780	3082	.03550
2600	.01450	3118	.02350
2700	.07490	3232	7.51000
2800	.01350		
2900	.01620		
3000	.01430		
3100	.02090		
3200	.00865		
3312	.54100		
TOTAL	.81140	TOTAL	7.64253 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJWC PERIOD : SPRING
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00443	1897	.00061
1600	.00271	2031	.00054
1670	.00275	2185	.00724
1700	.00577	2288	.00089
1780	.00129	2342	.01720
1800	.00433	2419	.00273
1900	.00382	2465	.00168
2000	.00251	2534	.00073
2100	.00177	2571	.00032
2200	.00256	2628	.00251
2300	.00273	2673	.00367
2400	.00305	2885	.00222
2500	.00478	2932	.00642
2600	.00244	2999	.00262
2700	.00404	3114	.03620
2800	.00132	3296	.36800
2900	.00349		
3000	.00268		
3100	.00098		
3200	.96600		
TOTAL	1.02345	TOTAL	.45358

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJNR
LOCATION : STATION - 3 LINE -IV

PERIOD : SPRING

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00432	1708	.00174
1700	.00353	1784	.00733
1780	.00649	1907	.00366
1800	.02950	2006	.00101
1837	.00814	2040	.00173
1900	.00193	2104	.00129
2000	.00557	2204	.00665
2100	.00484	2303	.02100
2120	.00392	2402	.03820
2200	.00381	2502	.05820
2313	.00884	2600	.04880
2380	.00347	2697	.10600
2400	.00192	2800	.05000
2430	.00592	2900	.04550
2500	.00115	3001	.05030
2541	.00777	3103	.06290
2600	.00116	3174	.48100
2700	.01210	3312	.58900
2800	.01200		
2900	.01380		
2929	.00258		
3000	.01110		
3100	.01360		
3162	.00617		
3200	.02370		
3297	.00018		
TOTAL	.19751	TOTAL	1.57431

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BJWT
PERIOD : SPRING
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.02280	1510	.04180
1600	.01520	1992	.00731
1670	.00734	2122	.00684
1700	.01770	2204	.00127
1780	.00668	2328	.00146
1800	.01760	2412	.00102
1855	.00551	2457	.00328
1900	.01440	2488	.00456
1953	.00573	2550	.00212
2000	.00924	2649	.01630
2041	.00418	2719	.00692
2100	.00485	2780	.00148
2136	.00380	2900	.00345
2200	.01350	3065	.11500
2253	.00599	3201	2.44000
2300	.00443		
2354	.00510		
2400	.00454		
2433	.00140		
2500	.01060		
2600	.02740		
2700	.07050		
2800	.14300		
2900	.22600		
3000	.26700		
3100	.41400		
3200	.48100		
3300	.27100		
3333	.19000		
TOTAL	2.27049	TOTAL	2.65281

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : 8080 PERIOD : FALL
LOCATION : STATION - 1 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1825	.00722	1965	.00028
1836	.00321	2016	.00024
1860	.00260	2044	.02420
2100	.00011	2085	.00381
2200	.00024	2125	.00264
2253	.00052	2147	.00025
2300	.00036	2169	.00045
2360	.00050	2212	.08460
2400	.00057	2240	.03860
2452	.00058	2268	.00304
2500	.00017	2319	.00215
2568	.00016	2353	.00475
2600	.00028	2425	.00746
2700	.00106	2454	.02790
2767	.00018	2502	.00178
2800	.00112	2573	.00454
2900	.00181	2646	.00050
3000	.00241	2671	.00075
3057	.00014	2750	.00060
3100	.00276	2783	.00080
3200	.01700	2849	.00205
3300	.00220	2987	.00046
3400	.00140	3062	.00873
		3177	.00913
		3258	.00042
TOTAL	.04660	TOTAL	.23013 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : 8000 PERIOD : FALL
LOCATION : STATION - 2 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.01330	2009	.00556
1600	.00345	2034	.00358
1668	.00203	2066	.00089
1700	.00582	2102	.00515
1772	.00271	2229	.01840
1800	.00274	2259	.00932
1900	.00157	2377	.00158
2000	.00141	2408	.00353
2100	.00087	2481	.01450
2120	.00127	2596	.00073
2143	.00043	2754	.00264
2200	.00232	2983	.00124
2253	.00143	3050	.03520
2300	.00211	3166	.05450
2366	.00234		
2400	.00208		
2500	.00086		
2600	.00143		
2700	.00164		
2800	.00970		
2900	.02230		
3000	.03040		
3048	.01770		
3100	.04430		
3200	.03810		
3300	.03240		
3400	.02460		
3500	.02230		
TOTAL	.29161	TOTAL	.15682

TABLE 2 CONT.'D

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HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BOFQ                                PERIOD : FALL
LOCATION :  STATION - 3  LINE -I

     HEXANE ELUATE                          BENZENE ELUATE
     -------------                          --------------

  RETENTION   CONCENTRATION    RETENTION    CONCENTRATION
    INDEX       (UG./G.)         INDEX        (UG./G.)
  ---------    ---------       ---------      ---------

                                 1769           .01930
                                 1876           .02190
                                 1912           .01300
                                 1995           .00277
                                 2032           .00783
                                 2250           .00368
                                 2279           .00192
                                 2508           .00166
                                 3118           .01020

    TOTAL        0.00000        TOTAL           .08226
```

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : 3OIE
PERIOD : FALL
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1968	.01410	2054	.01200
1985	.00231	2057	.01540
2000	.00381	2078	.03650
2061	.00243	2105	.00303
2070	.01470	2125	.01090
2100	.00065	2137	.00216
2174	.00186	2153	.00084
2200	.00154	2213	.07660
2246	.01180	2239	.06200
2300	.00181	2284	.00215
2352	.04820	2300	.00315
2400	.00134	2349	.00670
2454	.00614	2421	.00376
2500	.00081	2451	.02970
2600	.00203	2500	.00272
2628	.00629	2573	.00265
2666	.02330	2683	.00196
2700	.02380	2745	.00350
2729	.01950	2786	.00128
2762	.06110	2855	.00460
2800	.03890	2980	.01200
2830	.04230	2996	.00125
2867	.08610	3071	.04020
2900	.05430	3181	.05580
2915	.02740		
3000	.00259		
3054	.00589		
3100	.00283		
3200	.00216		
3264	.00398		
3300	.00160		
TOTAL	.51557	TOTAL	.39085

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : 8OKH PERIOD : FALL
LOCATION : STATION - 2 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00391	1580	.02950
1659	.00582	1600	.00418
1700	.01310	1770	.01150
1766	.00389	1877	.01880
1800	.00357	1912	.01180
1845	.02270	1996	.00385
1900	.00137	2019	.01360
1951	.00132	2073	.00219
2000	.00160	2234	.02420
2051	.02520	2263	.01870
2100	.00099	2376	.00307
2136	.00057	2450	.00243
2158	.00053	2479	.02080
2183	.00115	2535	.0032[illegible]
2200	.00118	2590	.00367
2263	.01660	2689	.00228
2300	.00214	2749	.00804
2370	.00489	2785	.00171
2400	.00606	3049	.03190
2440	.00306	3176	.00999
2471	.00790	3356	.01550
2500	.00083		
2600	.00076		
2668	.00419		
2700	.00016		
2727	.00320		
2800	.00086		
2819	.00098		
2855	.00286		
2900	.00359		
3000	.00571		
3100	.00307		
3200	.00396		
3300	.00060		
TOTAL	.15832	TOTAL	.24100

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BOML
LOCATION : STATION - 3 LINE -II

PERIOD : FALL

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1700	.00079	2009	.00861
1800	.00056	2034	.00454
1900	.00050	2066	.00112
2000	.00073	2105	.00487
2100	.00118	2229	.02800
2129	.00163	2260	.01740
2200	.00289	2374	.00335
2255	.00090	2449	.00374
2300	.00501	2477	.01520
2400	.01060	2530	.00246
2500	.01150	2591	.00420
2600	.01160	2752	.00361
2700	.01340	3055	.03680
2800	.01020	3182	.06980
2900	.01160		
3000	.01610		
3100	.01500		
3200	.01530		
3300	.00967		
TOTAL	.13916	TOTAL	.20370

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BONA
PERIOD : FALL
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1628	.00986	1711	.02500
1638	.00462	1814	.03050
1658	.00418	1851	.01860
1689	.00220	1919	.00085
1732	.00392	1945	.00215
1764	.00390	1983	.00920
1800	.01700	2038	.00125
1968	.00141	2086	.00185
2027	.02240	2177	.00112
2085	.00062	2239	.01330
2150	.00166	2275	.01030
2200	.00167	2414	.00178
2271	.01950	2539	.00883
2328	.00100	2670	.00217
2400	.00275	2780	.00213
2440	.00495	2843	.00848
2514	.01720	3112	.01930
2622	.00042	3125	.00410
2700	.00041	3187	.02110
2735	.00857		
2800	.00059		
2825	.00186		
2926	.00466		
2960	.00141		
3000	.00207		
3036	.00220		
3093	.00862		
3152	.00281		
TOTAL	.15246	TOTAL	.18201 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BONC　　　　　　　　PERIOD : FALL
LOCATION : STATION - 3　LINE -II

HEXANE ELUATE RETENTION INDEX	CONCENTRATION (UG./G.)	BENZENE ELUATE RETENTION INDEX	CONCENTRATION (UG./G.)
1700	.00131	2002	.00416
1800	.00071	2100	.00115
1900	.00061	2232	.01340
2000	.00060	2264	.00523
2031	.00168	2412	.01060
2100	.00074	2465	.00216
2200	.00096	2492	.00774
2256	.00092	2546	.00266
2300	.00090	2779	.00164
2400	.00091	3149	.01300
2500	.00046		
2600	.00092		
2700	.00170		
2800	.00188		
2900	.00450		
3000	.00787		
3100	.01270		
3200	.00880		
3300	.00591		
TOTAL	.05408	TOTAL	.06174 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BOPH   PERIOD : FALL
LOCATION : STATION - 1   LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00096		
1668	.00226		
1700	.01030		
2300	.00294		
2366	.00474		
2400	.00484		
2500	.00160		
2700	.00091		
2800	.00212		
2900	.00982		
3000	.01370		
3100	.01430		
3200	.01570		
3300	.01460		
3400	.00869		
TOTAL	.10748	TOTAL	0.00000

TABLE 2 CONT 'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : 8ORH PERIOD : FALL
LOCATION : STATION - 2 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1700	.00223	1972	.00316
2043	.00087	1996	.00139
2329	.01050	2063	.00111
2700	.00518	2189	.01360
2800	.00100	2221	.00612
2844	.00114	2341	.00138
2900	.01110	2420	.00131
2970	.00109	2449	.00598
3000	.00460	2501	.00040
3065	.00097	2570	.00095
3100	.00772	2739	.00439
3200	.00805	2776	.00058
3274	.00096	3063	.01720
3313	.01170		
TOTAL	.06711	TOTAL	.05757 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BOTJ
LOCATION : STATION - 3 LINE -III

PERIOD : FALL

HEXANE ELUATE RETENTION INDEX	HEXANE ELUATE CONCENTRATION (UG./G.)	BENZENE ELUATE RETENTION INDEX	BENZENE ELUATE CONCENTRATION (UG./G.)
1600	.00096	2003	.00275
1668	.00069	2231	.01590
1700	.00499	2261	.00739
1772	.00161	2459	.00128
1800	.00216	2487	.00630
1900	.00187	2765	.00669
2000	.00120	3052	.00612
2022	.00159	3153	.02190
2100	.00125		
2125	.00351		
2148	.00065		
2174	.00060		
2200	.00147		
2256	.00484		
2300	.00322		
2346	.00264		
2369	.00256		
2400	.00377		
2441	.00338		
2484	.00153		
2500	.00330		
2591	.00169		
2600	.00320		
2669	.00073		
2700	.00694		
2800	.00713		
2900	.01210		
2934	.00152		
3000	.01670		
3048	.00263		
3100	.02050		
3200	.01480		
3300	.01230		
3400	.00635		
TOTAL	.15438	TOTAL	.06833

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : 80VG PERIOD : FALL
LOCATION : STATION - 1 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00170	1763	.01370
1668	.00131	1876	.01470
1700	.02940	1913	.05390
1772	.00299	2021	.00848
1800	.00144	2211	.00796
1841	.00045	2238	.01700
1869	.00059	2314	.01620
1900	.00036	2409	.20300
1979	.00024	2481	.00678
2000	.00030	2518	.03500
2100	.00027	2617	.03200
2151	.00025	2729	.49500
2200	.00083	2804	.01820
2256	.00094	2892	.01550
2300	.00053	2980	.03820
2400	.00126	3051	.03770
2462	.00039	3079	.01100
2500	.00027	3195	.07790
2573	.00100	3250	.08400
2600	.00035	3372	5.87000
2700	.00105		
2729	.00091		
2766	.00045		
2800	.00157		
2900	.00462		
3000	.00637		
3100	.00956		
3200	.00744		
3300	.00608		
TOTAL	.08292	TOTAL	7.05622

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BOXG PERIOD : FALL
LOCATION : STATION - 2 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1700	.00162	1644	.00191
1800	.00135	1997	.00842
1900	.00037	2026	.00214
2000	.00084	2061	.00167
2100	.00039	2241	.03290
2135	.00136	2275	.01380
2317	.00106	2425	.02200
2418	.00454	2486	.00428
2632	.00055	2514	.01380
2728	.00223	2569	.00305
2748	.00151	2639	.00413
2800	.00310	2784	.00520
2900	.01140	2806	.00438
3000	.01700	3088	.07050
3100	.02230	3183	.01940
3200	.02030	3281	.01340
3300	.01500		
3400	.01110		
TOTAL	.11602	TOTAL	.22098

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : BOZI PERIOD : FALL
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1772	.00413	1764	.01130
1800	.00179	1877	.01140
1847	.00120	1912	.00678
1874	.00097	1997	.00116
2000	.00073	2024	.00523
2051	.00170	2239	.00814
2260	.00146	2269	.00441
2400	.00301	2383	.00095
2716	.00174	2458	.00059
3030	.00068	2485	.00322
3057	.00108	2539	.00478
3329	.00496	2740	.00296
		3061	.00788
		3188	.03020
TOTAL	.02345	TOTAL	.09900

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : 80ZW
PERIOD : FALL
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1775	.00455	1752	.01060
1868	.00519	1867	.02850
1892	.00350	1904	.01760
1924	.00209	1968	.00120
2015	.00051	1991	.00423
2068	.00890	2027	.00856
2273	.00617	2066	.00272
2400	.00254	2113	.00124
2476	.00346	2240	.00091
2559	.00048	2269	.00235
2570	.00034	2319	.00048
2675	.00190	2405	.00113
2730	.00084	2481	.00220
2762	.00030	2836	.00086
2866	.00102	3074	.00674
2900	.00038	3211	.01240
3000	.00074		
3067	.00147		
3100	.00057		
TOTAL	.04495	TOTAL	.10172 ✓

TABLE 2 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : PAR
SAMPLE CODE : 8OZY
PERIOD : FALL
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1800	.00110	1775	.02090
1849	.00016	1874	.03020
1900	.00025	1908	.01650
2000	.00069	1985	.00355
2187	.00080	2021	.00830
2700	.00067	2227	.00377
2800	.00058	2255	.00219
2900	.00129	2473	.00203
3000	.00355	3057	.00570
3100	.00541	3186	.14100
3200	.00609		
3300	.00403		
3400	.00159		
TOTAL	.02621	TOTAL	.23414 ✓

TABLE 3

GLC ANALYSES OF DISSOLVED HIGH-MOLECULAR-WEIGHT HYDROCARBONS WATER SAMPLES

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BABD PERIOD : WINTER
LOCATION : STATION - 1 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2600	.00773	1907	.00027
2700	.01120	2033	.00550
2700	.00601	2132	.00156
2800	.00674	2229	.00769
3000	.00633	2305	.00084
3100	.00539	2332	.00140
		2367	.04050
		2581	.00005
		2656	.01390
		2749	.00876
		2827	.00186
		2868	.00327
		2929	.03230
		3050	.02890
		3106	.01250
		3335	.00051
TOTAL	.04340	TOTAL	.15981

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BACY PERIOD : WINTER
LOCATION : STATION - 2 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1900	.00151	1898	.00014
2000	.00075	2042	.00026
2100	.00166	2237	.00024
2200	.02140	2304	.00076
2300	.01340	2438	.00139
2400	.03440	2665	.00089
2500	.00137	2739	.00138
2600	.02870	2815	.00984
2638	2.71000	3060	.01810
2700	.04310	3214	.20000
TOTAL	2.85629	TOTAL	.23300

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAEZ PERIOD : WINTER
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2800	.00051	2677	.00794
2814	.00009	2722	.00477
2900	.00064	2806	.01200
3000	.00171		
3200	.00234		
3300	.00308		
3400	.00339		
3500	.00353		
3600	.00148		
3700	.00224		
TOTAL	.01901	TOTAL	.02471 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAFN   PERIOD : WINTER
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2500	.00584	2013	.00198
2600	.00291	2241	.00142
2700	.00533	2455	.00471
2800	.00688	2598	.00251
2900	.01020	2817	.01130
3000	.01740	2891	.00203
3035	.04220	3033	.00837
3100	.01160	3142	.00535
3200	.00151	3219	.00259
3300	.00180		
TOTAL	.10567	TOTAL	.04026

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAFP
PERIOD : WINTER
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2500	.00083	3046	.00754
2600	.00167	3155	.00549
2700	.00134		
2800	.00237		
2900	.00337		
3000	.00453		
3100	.00434		
3200	.00438		
3300	.00299		
3400	.00166		
TOTAL	.02748	TOTAL	.01303

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAHI PERIOD : WINTER
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00274	1941	.01820
1670	.00035	2079	.00921
1700	.00120	2125	.00042
1780	.00014	2222	.00416
1800	.00107	2257	.00127
1900	.00118	2287	.00712
2000	.00021	2329	.00521
2100	.01210	2417	.01730
2200	.01030	2470	.00358
2300	.01040	2497	.00361
2400	.01310	2587	.11900
2500	.01410	2680	.00354
2600	.01460	2742	.03120
2700	.01480	2857	.01820
2800	.01280	2955	.04230
2900	.01120	3121	.02470
3000	.01040	3148	.01980
3100	.01050	3274	7.14000
3200	.00594		
3300	.00636		
3400	.00411		
TOTAL	.15760	TOTAL	7.46882

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAHK
LOCATION : STATION - 1 LINE -II

PERIOD : WINTER

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2200	.00112	1793	.00528
2300	.00127	1968	.00112
2400	.00131	2003	.00158
2500	.00143	2048	.00127
2600	.00169	2067	.02530
2700	.00187	2162	.00091
2800	.00189	2208	.03620
2900	.00194	2260	.00375
3000	.00213	2320	.00071
3100	.00236	2454	.01030
3200	.00207	2531	.00990
3300	.00121	2575	.14100
		2655	.01300
		2737	.19000
		2804	.09540
		2867	.05160
		2988	.49900
		3182	.19300
TOTAL	.02029	TOTAL	1.27932

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAHM PERIOD : WINTER
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2128	.00172	2316	.00195
2200	.00061	2323	.00785
2300	.00125	2327	.00522
2400	.00064	2394	.01490
2500	.00295	2455	.01190
2506	.00191	2463	.05230
2600	.00381	2490	.07280
2700	.00413	2673	.01080
2768	.00048	2824	.00663
2800	.00439	3013	.00429
2856	.00167	3058	.00708
2900	.00848	3085	.01930
3000	.00301	3119	.02850
3055	.00083	3191	.18600
3100	.00150	3316	.00362
3200	.00243	3375	.01010
3300	.00095		
TOTAL	.04076	TOTAL	.44324

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAJP PERIOD : WINTER
LOCATION : STATION - 2 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00234	2065	.01840
1780	.00035	2083	.01740
1800	.00064	2154	.04130
1900	.00367	2247	.05000
2000	.00156	2339	.09580
2031	.00408	2437	.12100
2100	.00555	2483	.29000
2200	.02050	2554	.10400
2267	.00599	2646	.62600
2300	.01460	2725	.06380
2376	.00948	2907	.02290
2400	.01570	2926	.05640
2458	.01100	3030	.12600
2500	.03270	3134	.69400
2600	.03910	3361	17.00000
2700	.07410		
2768	.01610		
2800	.07500		
2843	.01310		
2900	.10800		
3000	.09940		
3053	.02220		
3100	.10900		
3200	.25200		
3300	.05630		
TOTAL	.99246	TOTAL	19.32700

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BALW
LOCATION : STATION - 3 LINE -II

PERIOD : WINTER

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1670	.00043	2036	.03180
1700	.00088	2225	.01400
1780	.00029	2304	.00914
1800	.00143	2441	.03870
1900	.01260	2474	.00890
1942	.00131	2519	.12400
2000	.00159	2618	.03790
2039	.00265	2656	.01470
2100	.00781	2690	.01040
2175	.00848	2724	.06940
2200	.01760	2790	.03000
2262	.00623	2848	.05070
2300	.03760	2904	.10600
2372	.00488	2943	.06020
2400	.06120	2996	.03210
2500	.06440	3098	.32800
2560	.04830	3251	39.00000
2600	.06210		
2668	.00570		
2700	.05720		
2767	.00816		
2800	.04730		
2857	.00943		
2900	.04780		
3000	.02980		
3100	.09310		
3200	.01020		
3300	.01000		
TOTAL	.65847	TOTAL	39.96594

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BARD PERIOD : WINTER
LOCATION : STATION - 1 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2200	.00861	2169	.00716
2289	.01150	2275	.00151
2300	.00443	2422	.00259
2400	.00124	2707	.00529
2500	.00231	2746	.05680
2600	.00249	2817	.00218
2700	.00359	2887	.00213
2800	.00321	2903	.03400
2900	.00437	3019	.00129
2972	.00441	3035	.01110
3000	.01280	3186	.01900
3100	.01290	3231	.02660
3200	.01380	3260	.02070
		3282	.49200
		3346	3.47000
TOTAL	.08566	TOTAL	4.15235 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BASY PERIOD : WINTER
LOCATION : STATION - 2 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2000	.00086	2009	.01670
2100	.00146	2148	.01360
2200	.00117	2307	.00537
2400	.00666	2327	.01360
2600	.01190	2348	.00657
2700	.01700	2435	.04570
2800	.02260	2547	.05600
2900	.03400	2577	.01230
3000	.03730	2663	.09600
3100	.04140	2767	.07620
3200	.04320	2882	.38800
3300	.06050	2992	.09930
3400	.05040	3105	.09580
		3157	.03990
		3210	.17300
		3308	.36300
TOTAL	.32845	TOTAL	1.50104 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAUY PERIOD : WINTER
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2100	.00042	2377	.06830
2200	.00353	2479	.02100
2300	.00965	2618	.04000
2400	.01740	2701	.02060
2500	.02550	2759	.02160
2600	.03140	3081	.01480
2700	.03680	3102	.05790
2800	.03540	3195	9.53000
2900	.04020	3267	.72000
3000	.02740		
3100	.02930		
3200	.04520		
3300	.01340		
3400	.00885		
3500	.00991		
3600	.00118		
TOTAL	.33554	TOTAL	10.49420

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAVM PERIOD : WINTER
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2000	.00128	1546	.00099
2100	.00064	1782	.00083
2200	.00087	2898	.00120
2300	.00265	2989	.01110
2400	.00318	3091	.03540
2500	.00375	3117	.02190
2600	.00438	3231	.04640
2700	.00509		
2800	.00507		
2900	.00506		
3000	.00505		
3100	.00378		
3200	.00200		
3300	.00568		
3400	.00227		
TOTAL	.05075	TOTAL	.11782 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAVO PERIOD : WINTER
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2200	.00063	2074	.00136
2300	.00338	2196	.00101
2400	.00581	2217	.00067
2500	.00884	2250	.00383
2600	.01020	2291	.00433
2700	.03260	2394	.00889
2800	.01550	2430	.00237
2900	.02480	2464	.00418
3000	.04170	2500	.01320
3100	.03340	2607	.01250
3200	.03940	2719	.04790
3300	.10700	2813	.01580
3400	.00863	2854	.01510
3500	.00304	2909	.02500
		2998	.04950
		3118	.02450
		3170	.74800
		3292	.08630
TOTAL	.33493	TOTAL	1.06444 √

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAWN
PERIOD : WINTER
LOCATION : STATION - 1 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2300	.00053	2351	.06920
2400	.00105	2552	.01760
2500	.00206	2648	.02810
2600	.00438	2740	.05990
2700	.00906	2941	.14500
2800	.01440	3079	.37200
2900	.02120	3209	26.60000
3000	.02230	3269	6.23000
3100	.02420	3349	.01290
3200	.01900		
3300	.01960		
3400	.00949		
3500	.00535		
3600	.00214		
TOTAL	.15476	TOTAL	33.53470

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAXN PERIOD : WINTER
LOCATION : STATION - 1 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2017	.03930	1744	.00390
2255	.03130	2812	.14800
2400	.04880	3095	.60200
2500	.05680	3346	88.80000
2600	.06840	3398	9.21000
2700	.03750		
2800	.04290		
2900	.04240		
3000	.02890		
3100	.09310		
3200	23.70000		
TOTAL	24.18940	TOTAL	98.76390 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAXP
PERIOD : WINTER
LOCATION : STATION - 1 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2800	.00276	1534	.05620
3200	.01890	1534	.11200
3300	.00195	1537	.17900
3400	.00546	1538	.09250
3500	.00814	1543	.04820
3600	.01140	1581	.09540
3700	.01620	1584	.28300
		1647	.00341
		1657	.02530
		1731	.02160
		2043	.01170
		2188	.03850
		2828	3.86000
		3017	2.42000
		3095	1.14000
		3308	80.10000
		3352	9.10000
TOTAL	.06481	TOTAL	97.58681 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BAYV PERIOD : WINTER
LOCATION : STATION - 2 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.01780	1904	.01600
1780	.00104	2113	.00893
1800	.00239	2170	.03280
1900	.00252	2217	.05480
2100	.00301	2289	.00563
2200	.05300	2409	.02380
2300	.00360	2422	.03240
2400	.00185	2488	.00770
		2528	.34300
		2562	.02130
		2618	.10900
		2683	1.45000
		2831	.18400
		2847	.29400
		2925	.94900
		3112	4.47000
TOTAL	.08521	TOTAL	8.00236

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BBAV PERIOD : WINTER
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1504	.00757	1443	.00064
1600	.00346	1472	.00125
1670	.00439	1613	.00169
1780	.00066	1663	.00065
1800	.01380	1743	.00314
1818	.01650	1846	.00126
1900	.00989	1872	.00134
2100	.00118	2007	.00345
2200	.00181	2029	.00963
2400	.00128	2115	.00071
		2176	.00473
		2213	.00314
		2901	.05010
TOTAL	.06054	TOTAL	.08173

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BIYG
PERIOD : SPRING
LOCATION : STATION - 1 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00083	2037	.01210
1600	.00139	2364	.00171
1700	.00170	2506	.00155
1780	.00297	2718	.00074
1800	.00154	2905	.00062
1816	.00277	3175	1.14000
1900	.00052		
1915	.00213		
2000	.00216		
2051	.00241		
2100	.00211		
2200	.00384		
2271	.00217		
2300	.00206		
2375	.00075		
2400	.00206		
2444	.00040		
2500	.00371		
2600	.00561		
2700	.00386		
2800	.00655		
2900	.01130		
3000	.02190		
3073	.01370		
3100	.01720		
3200	.01560		
3240	.00831		
TOTAL	.13955	TOTAL	1.15672

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BJAI PERIOD : SPRING
LOCATION : STATION - 2 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00138	2029	.00109
1670	.00132	2351	.00626
1700	.00270	2491	.00153
1780	.00106	2523	.00406
1800	.00196	2558	.00176
1900	.00198	2678	.02460
2000	.00173	2792	.00047
2039	.00138	3095	.00768
2100	.00176	3180	.60300
2200	.00336		
2300	.00601		
2400	.00733		
2500	.01040		
2600	.01030		
2700	.01010		
2800	.01070		
2900	.01530		
3000	.02900		
3100	.03980		
3200	.02950		
3237	.01000		
TOTAL	.19707	TOTAL	.65045 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 3KCL
LOCATION : STATION - 3 LINE -I

PERIOD : SPRING

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1418	.01000	1796	.00084
1500	.01010	1904	.00058
1565	.00660	1945	.00108
1600	.00557	2011	.00337
1624	.00068	2040	.09940
1670	.00364	2164	.00079
1700	.00712	2202	.01010
1780	.01190	2238	.01100
1800	.00852	2277	.04510
1858	.00215	2323	.00532
1900	.01220	2348	.00256
1959	.00267	2418	.01190
2000	.01190	2459	.01120
2039	.00253	2493	.02890
2100	.01530	2538	.04960
2200	.02300	2641	.01590
2253	.00334	2677	.00214
2300	.02460	2746	.02660
2356	.00370	2856	.00511
2400	.03000	2876	.00267
2500	.03600	2937	.00483
2600	.04350	2998	.00327
2700	.05240	3048	.00346
2800	.05640	3091	.01120
2900	.06260	3128	.05940
3000	.04730	3237	13.60000
3100	.05610		
3200	.06930		
3300	.08130		
TOTAL	.70042	TOTAL	14.01632 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 3KDA PERIOD : SPRING
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00115	1582	.02750
1600	.00096	1895	.01120
1670	.00060	2016	.00242
1700	.00224	2461	.00158
1800	.00128	2206	.00570
1900	.00219	2288	.00600
2000	.00124	2350	.00610
2100	.00123	2381	.03450
2200	.00189	2542	.08740
2300	.00143	2615	.00662
2359	.00118	2679	.00357
2400	.00174	2713	.00034
2500	.00271	2797	.00205
2600	.00331	2961	.08000
2700	.00448	3085	9.65000
2800	.00378	3337	.52900
2900	.00566		
3000	.00687		
3100	.00911		
3200	.00681		
3300	.00466		
TOTAL	.06452	TOTAL	10.45398

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 3KDC PERIOD : SPRING
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1428	.00863	2035	.00249
1600	.01030	2307	.00020
1611	.00285	2449	.00067
1648	.00463	2731	.00073
1670	.00793	3011	.00024
1700	.02570	3061	.00737
1780	.00999	3161	.00271
1785	.00047		
1800	.00978		
1900	.00719		
2000	.00778		
2019	.00373		
2100	.01110		
2108	.00716		
2126	.00682		
2200	.02560		
2213	.01380		
2300	.05830		
2347	.05340		
2400	.04650		
2461	.07890		
2500	.05530		
2532	.05270		
2574	.05460		
2600	.07060		
2628	.04610		
2700	.12100		
2733	.03340		
2772	.02670		
2800	.07620		
2839	.03480		
2900	.07140		
3000	.03910		
3100	.08040		
3138	.04050		
3200	.00021		
3256	.01520		
3354	.02880		
TOTAL	1.24757	TOTAL	.01441

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BJEO
LOCATION : STATION - 1 LINE -II

PERIOD : SPRING

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1410	.00371	1454	.00824
1594	.00112	1604	.00185
1600	.00459	2031	.02510
1670	.00341	2115	.00105
1700	.00628	2158	.00272
1780	.00179	2207	.00550
1800	.00570	2241	.01330
1900	.00088	2287	.00281
1922	.00554	2346	.00461
2000	.00578	2417	.00071
2100	.01020	2448	.00245
2169	.00143	2519	.16900
2200	.00846	2598	.00422
2267	.00257	2680	.51300
2300	.00956	2751	.02360
2371	.00105	2829	.01250
2400	.01300	2891	.00236
2500	.00058	2945	.01480
2594	.02470	3124	.10200
2600	.01870	3262	6.02000
2700	.02930		
2787	.03440		
2800	.03980		
2900	.00189		
3000	.03810		
3060	.00263		
3100	.02630		
3200	.05150		
3245	.02500		
TOTAL	.37797	TOTAL	6.92982

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BJGS
PERIOD : SPRING
LOCATION : STATION - 2 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2360	.00118	2061	.00544
2400	.00062	2209	.00042
2500	.00146	2246	.00053
2600	.00195	2283	.00133
2700	.00341	2401	.00024
2800	.00327	2490	.00069
2900	.00512	2535	.00231
3000	.00457	2572	.00790
3100	.00618	2726	.03050
3200	.00470	2826	.00065
3321	.00426	2857	.00139
		2963	.00119
		3130	.05300
		3242	7.71000
TOTAL	.03672	TOTAL	7.81559

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BJIX PERIOD : SPRING
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1580	.00100	1596	.00396
1600	.00437	1889	.00552
1670	.00322	1916	.00153
1700	.00592	1936	.00223
1754	.00039	2020	.00478
1780	.00177	2047	.08650
1800	.00509	2138	.00855
1900	.01220	2191	.01380
1991	.00064	2225	.01050
2000	.00520	2260	.04600
2093	.00282	2303	.00670
2100	.00582	2338	.00308
2121	.00016	2386	.00435
2180	.00111	2435	.00686
2200	.00561	2461	.03150
2300	.01360	2503	.03210
2309	.01020	2540	.49100
2398	.00578	2600	.01580
2400	.01360	2635	.00355
2417	.00635	2691	1.03000
2489	.00472	2725	.02340
2500	.01380	2753	.04610
2526	.00434	2814	.03340
2600	.01580	2850	.00491
2700	.01840	2873	.00075
2800	.01600	2924	.01750
2900	.01960	2975	.01820
3000	.02760	3097	.32600
3100	.03490	3257	8.84000
3125	.00197		
3200	.02360		
3249	.00717		
3296	.02040		
TOTAL	.31315	TOTAL	11.11857

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BJJN PERIOD : SPRING
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00288	2035	.01250
1600	.00268	2431	.00160
1670	.00541	3069	.01900
1700	.00550	3169	.12800
1780	.00651		
1800	.00179		
1856	.00564		
1900	.00436		
2000	.00066		
2100	.00360		
2200	.00322		
2231	.00129		
2300	.00359		
2344	.00144		
2381	.00432		
2400	.00076		
2451	.00039		
2483	.00345		
2500	.00021		
2583	.00509		
2600	.00154		
2685	.00506		
2700	.00231		
2783	.00461		
2800	.00544		
2900	.00912		
3000	.00131		
3100	.00074		
3199	.00045		
3200	.00550		
3301	.00019		
TOTAL	.09906	TOTAL	.16110 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BJJP PERIOD : SPRING
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2300	.00060	2053	.00790
2357	.00107	2243	.00093
2400	.00073	2276	.00133
2500	.00124	2533	.00326
2600	.00152	2728	.00343
2700	.00353	2770	.00165
2800	.00604	2817	.00024
2900	.01210	2907	.00116
3000	.01770	3001	.00170
3100	.02350	3102	.00356
3200	.01770	3187	.31100
3300	.01730		
TOTAL	.10303	TOTAL	.33616 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BJLW PERIOD : SPRING
LOCATION : STATION - 1 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00304	2058	.00163
1600	.00320	2416	.00298
1670	.00234	2592	.01560
1700	.00473	2747	.20500
1780	.01870	2811	.00481
1800	.00487	2869	.00320
1900	.00407	3141	.00710
2000	.00328	3230	2.59000
2043	.01890		
2100	.00307		
2194	.00044		
2200	.00142		
2274	.00337		
2300	.00401		
2400	.00405		
2491	.00267		
2500	.00106		
2600	.00699		
2629	.00719		
2700	.01300		
2800	.01100		
2900	.00976		
3000	.01250		
3100	.01200		
3114	.02790		
3200	1.92000		
TOTAL	2.10356	TOTAL	2.83032 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BJNX PERIOD : SPRING
LOCATION : STATION - 2 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00419	2084	.00908
1600	.00568	2230	.00192
1670	.00277	2300	.00304
1700	.00659	2346	.00187
1780	.00045	2446	.00231
1800	.00468	2507	.00911
1854	.00165	2552	.02390
1900	.00594	2651	.00297
2000	.00336	2692	.00075
2100	.00273	2758	.01080
2200	.00413	2884	.01890
2300	.00616	3075	.00039
2361	.00215	3188	.00470
2400	.00958	3296	.57600
2500	.01290		
2600	.01650		
2700	.02000		
2800	.02470		
2900	.03050		
3000	.02820		
3100	.02950		
3200	.01210		
TOTAL	.23446	TOTAL	.66574 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 8JPZ PERIOD : SPRING
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1421	.00427	1911	.00034
1600	.00428	1956	.00290
1670	.00160	2041	.03100
1700	.00219	2094	.00062
1780	.00311	2133	.00128
1800	.00896	2181	.00633
1862	.00454	2255	.00484
1900	.00139	2302	.00091
2000	.00244	2370	.00362
2020	.00025	2460	.00733
2100	.00259	2481	.00827
2126	.00341	2505	.01900
2169	.00010	2529	.00738
2200	.00180	2603	.00099
2340	.00315	2645	.00372
2354	.00071	2708	.00743
2400	.00458	2742	.00145
2460	.00070	2780	.00237
2500	.00644	2829	.05340
2600	.00948	2917	.00470
2700	.01160	2943	.00140
2800	.01270	3053	.01490
2900	.01660	3113	.03510
3030	.02600	3209	2.82000
3100	.04320		
3200	.02920		
3226	.03780		
3314	.01990		
3364	.01600		
TOTAL	.27899	TOTAL	3.03928

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BJ00 PERIOD : SPRING
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00567	1648	.00112
1600	.00242	1777	.00144
1670	.00252	1908	.00187
1700	.00710	2200	.00240
1780	.00042	2364	.00227
1800	.00504	2400	.00106
1854	.00230	2497	.00198
1900	.00645	2597	.00355
2000	.00423	2700	.00432
2035	.00231	2797	.00560
2100	.00289	2893	.01370
2200	.00388	2999	.00772
2300	.00348	3061	.02120
2359	.00194	3200	.01220
2400	.00386	3302	.00494
2500	.00490		
2600	.00543		
2700	.00854		
2800	.01490		
2900	.02340		
3000	.02440		
3100	.02640		
3166	.00718		
3200	.00954		
TOTAL	.17920	TOTAL	.08537 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BJQQ PERIOD : SPRING
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00408	1613	.00229
1600	.00283	1877	.00100
1670	.00191	1901	.00091
1700	.00571	1920	.00067
1800	.00800	1947	.00133
1858	.00244	2004	.00517
1900	.01520	2031	.04350
1957	.00349	2121	.00174
2000	.01460	2170	.00486
2036	.00332	2207	.01110
2100	.01650	2238	.01250
2200	.02380	2364	.00272
2300	.02810	2415	.00177
2360	.00216	2446	.00197
2400	.04620	2470	.00027
2500	.07380	2492	.00667
2600	.11000	2525	.01100
2700	.17500	2629	.00066
2800	.22100	2681	.03390
2850	.01520	2729	.00107
2900	.28100	2779	.00059
2953	.04150	2817	.02920
3000	.30700	2915	.00105
3100	.45700	3092	.03500
3200	.58200	3187	1.37000
3300	.70000		
TOTAL	3.14184	TOTAL	1.58094 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BJSB
LOCATION : STATION - 1 LINE -IV
PERIOD : SPRING

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00123	1960	.03130
1700	.00184	2157	.00642
1780	.00223	2363	.00121
1800	.00180	2646	.00281
1900	.00121	2930	.00033
2000	.00086	2993	.03550
2100	.00252	3093	.04550
2200	.00177		
2300	.00247		
2400	.00304		
2500	.00385		
2600	.00476		
2700	.00531		
2800	.00654		
2900	.00528		
3000	.00451		
3100	.03160		
3200	.00458		
TOTAL	.08540	TOTAL	.12307 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BJUB PERIOD : SPRING
LOCATION : STATION - 2 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00626	1459	.00512
1600	.00707	1911	.00129
1670	.00436	2044	.00282
1700	.00821	2176	.00046
1780	.00283	2205	.00131
1800	.00740	2305	.00758
1900	.00081	2403	.01390
2000	.00683	2501	.01620
2042	.00918	2536	.01140
2100	.00489	2599	.01570
2200	.00387	2695	.02550
2300	.00346	2797	.01050
2383	.00049	2896	.00619
2400	.00454	2998	.00456
2500	.00449	3099	.02070
2600	.00183	3176	3.36000
2700	.00276	3302	.03780
2722	.00506		
2800	.00123		
2900	.00537		
2923	.00052		
3000	.00511		
3024	.01120		
3100	.00095		
3196	.40500		
3200	.00453		
TOTAL	.51825	TOTAL	3.54103

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 8JWD PERIOD : SPRING
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00729	1510	.04180
1600	.00447	1992	.00731
1670	.00313	2122	.00684
1700	.00647	2204	.00127
1780	.00069	2328	.00146
1800	.00346	2412	.00102
1900	.00595	2457	.00328
2000	.00530	2488	.00456
2100	.00417	2550	.00212
2200	.00691	2649	.01630
2300	.00453	2719	.00692
2400	.00579	2780	.00148
2500	.00977	2900	.00345
2600	.01320	3065	.11500
2700	.02520	3201	2.44000
2800	.04590		
2900	.06680		
3000	.07530		
3100	.10100		
3200	.08350		
3286	.05840		
TOTAL	.53723	TOTAL	2.65281

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BJWS PERIOD : SPRING
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1900	.00129	2030	.00698
2300	.00037	2216	.00101
2367	.00097	2296	.00117
2400	.00104	2398	.00094
2500	.00225	2456	.00105
2613	.00236	2499	.00262
2700	.00387	2543	.00244
2800	.00182	2695	.01990
2831	.00563	2788	.00042
2879	.00305	3081	.00172
2900	.11600	3166	.30900
2936	.00471		
TOTAL	.14336	TOTAL	.34725 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 3JNU PERIOD : SPRING
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.01160	1469	.07880
1546	.00222	2036	.01350
1600	.02770	2171	.00452
1628	.00119	2252	.00410
1670	.01920	2299	.00316
1700	.03920	2460	.00785
1727	.00379	2503	.01370
1745	.00419	2534	.01240
1780	.01290	2638	.00240
1800	.03490	2706	.01020
1849	.01300	2762	.00445
1900	.03470	2823	.00158
1936	.00443	2943	.00202
1955	.00607	3107	.11500 ✓
2000	.02000	3224	6.44000
2037	.00215		
2053	.00059		
2078	.00109		
2100	.01660		
2145	.00242		
2166	.00320		
2192	.00192		
2200	.01710		
2252	.00045		
2274	.00492		
2300	.01930		
2387	.00848		
2400	.02180		
2452	.00575		
2500	.00377		
2526	.02560		
2600	.00488		
2626	.03000		
2646	.01290		
2700	.11100		
2742	.05580		
2800	.21900		
2834	.12200		
2900	.47900		
2946	.11600		
3000	.56500		
3042	.17700		
3100	.59200		
3163	.12000		
3171	.16300		
3200	.44000		
3290	.27900		
3342	.77400		
TOTAL	4.63081	TOTAL	6.71368

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 808P PERIOD : FALL
LOCATION : STATION - 1 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2121	.00012	1817	.00014
2261	.00018	1868	.00423
2387	.00181	2017	.03050
2501	.00032	2100	.00584
2584	.00134	2134	.00182
2684	.00071	2153	.00100
2751	.00074	2207	.05630
3038	.00055	2336	.00704
3171	.00348	2367	.03250
		2426	1.11000
		2591	.64300
		2663	.33500
		2763	.03030
		2801	.08650
		2838	.07940
		2898	.01580
		2956	.00392
		2975	.00067
		3001	.00429
		3031	.00193
		3137	.16300
		3385	.02350
TOTAL	.00925	TOTAL	2.63668 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 800P PERIOD : FALL
LOCATION : STATION - 2 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00016	1911	.00383
1668	.00043	2023	.00947
1800	.00046	2122	.03560
1900	.00044	2232	.04200
1933	.00087	2375	.01370
1974	.00162	2437	.02180
2000	.00017	2971	.00590
2100	.00100	3047	.17000
2133	.00041	3316	.01710
2269	.00121		
2300	.00272		
2380	.01120		
2455	.00041		
2498	.00067		
2711	.00069		
2800	.00058		
2824	.00039		
2900	.00026		
2957	.00032		
3000	.00078		
TOTAL	.02479	TOTAL	.31940

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 3OFR PERIOD : FALL
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1424	.00439	1501	.00291
1435	.00149	1542	.01140
1477	.00192	1651	.00772
1572	.00319	1663	.00251
1659	.00033	1704	.00962
1700	.00749	1763	.00412
1732	.00048	1823	.00087
1800	.00038	1892	.00156
2000	.00028	1982	.00198
2119	.00055	2014	.00085
2145	.00054	2056	.01820
2331	.00041	2109	.00130
2400	.00981	2140	.00138
2537	.00058	2168	.00140
		2238	.00334
		2278	.02910
		2300	.00173
		2406	.01650
		2455	.00308
		2496	.00633
		2543	.00360
		2605	.00794
		2745	.00785
		2876	.00131
		2946	.00171
		2997	.00346
		3062	.00306
		3109	.00365
		3137	.00880
		3219	.00211
TOTAL	.03184	TOTAL	.16939

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BOIF
LOCATION : STATION - 1 LINE -II

PERIOD : FALL

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00622	2038	.00221
1600	.00058	2101	.00070
1624	.00043	2124	.00165
1668	.00427	2185	.00299
1700	.00104	2226	.00276
1772	.00182	2386	.02480
1800	.00162	2517	.00396
1851	.00171	2732	.02220
1900	.00254	3020	.00105
2000	.00132	3057	.01780
2100	.00123	3154	.59300
2122	.00067	3196	.00296
2182	.00017	3297	.00496
2200	.00244	3400	.01710
2300	.00277		
2378	.01610		
2400	.00222		
2500	.00232		
2600	.00146		
2700	.00152		
2800	.00345		
2900	.00450		
3000	.00468		
3100	.00413		
3200	.00563		
3300	.00349		
3400	.00116		
TOTAL	.07949	TOTAL	.69814 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARRON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 8OKI PERIOD : FALL
LOCATION : STATION - 2 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
2274	.00031	1862	.00244
2387	.00117	1906	.00184
2693	.00071	1963	.00285
2756	.00071	2004	.00513
		2073	.01140
		2106	.00247
		2127	.02030
		2181	.12200
		2213	.03880
		2253	.00187
		2287	.00411
		2312	.00863
		2335	11.70000
		2541	.22600
		2594	.11800
		2697	.00254
		2752	.01770
		2805	.00396
		2903	.04230
		2952	.20900
		3225	.02130
		3394	.24400
TOTAL	.00290	TOTAL	12.80664 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BOMM PERIOD : FALL
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00072	1672	.00068
1600	.00061	1768	.00257
1623	.00163	1795	.00170
1668	.00811	1845	.00098
1700	.00194	1892	.00404
1738	.00128	2001	.00751
1754	.00068	2025	.00658
1772	.01670	2087	.00434
1800	.01260	2104	.00541
1835	.00521	2168	.01720
1853	.01890	2210	.02030
1900	.03290	2364	.12200
1938	.01480	2423	.00882
1953	.01160	2500	.01120
2000	.01950	2565	.02270
2030	.00426	2704	.01590
2100	.01080	2718	.00338
2124	.00299	2821	.00632
2166	.00111	2904	.00536
2200	.00874	3048	.02400
2269	.00477	3148	.85200
2300	.01040	3290	.05540
2378	.04050		
2400	.01210		
2500	.03100		
2600	.00739		
2700	.01060		
2800	.00652		
2900	.00681		
3000	.00663		
3067	.16800		
3100	.00691		
3200	.00318		
3292	.00453		
3341	.01280		
TOTAL	.50722	TOTAL	1.19839

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 30NB PERIOD : FALL
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1559	.10300	1606	.03030
1562	.05310	1607	.07000
1567	.02120	1616	.18600
1577	.02430	1622	.61000
1584	.19300	1627	.24500
1595	.09970	1638	.30700
1600	.32100	1651	.17900
1616	.10600	1679	.15300
1628	.04660	1704	.56400
1636	.03330	1716	.39400
1647	.01200	1748	.06820
1657	.02860	1780	.27500
1663	.02080	1798	.04760
1668	.17000	1813	.14100
1700	.08310	1854	.39300
1722	.02670	1873	.54800
1740	.03130	1895	.05520
1759	.00479	1927	.12500
1772	.03590	1958	.04450
1800	.05580	1993	.20800
1842	.21300	2018	.29700
1900	.03070	2096	.11000
1913	.01620	2140	3.24000
1963	.00441	2208	2.01000
2000	.04400	2240	.09840
2037	.02750	2377	.06530
2100	.00382	2400	3.07000
2126	.01900	2473	.14100
2200	.00590	2541	.10200
2207	.01590	2563	.21800
2300	.00710	2605	.11700
2310	.00896	2922	.15200
2400	.00898	3041	.14900
2488	.02850	3208	1.48000
2662	.02820		
TOTAL	1.93236	TOTAL	15.89350 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BOND PERIOD : FALL
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1761	.00045	1878	.00664
1767	.00123	1881	.00134
1770	.00341	1902	.00163
1783	.00058	2014	.00050
1786	.01100	2074	.00080
1812	.00326	2109	.00062
1830	.01330	2136	.00032
1836	.00071	2170	.01430
1866	.00602	2233	.00069
1870	.00041	2243	.00072
1883	.00385	2347	.01010
1889	.00053	2360	.00299
1900	.00045	2382	.00539
1954	.01450	2391	.00560
2000	.00125	2427	.00273
2002	.02460	2998	.00426
2036	.01050	3066	.00661
2099	.01950	3186	.11300
2100	.00091		
2200	.00133		
2250	.00084		
2300	.00160		
2400	.00337		
2434	.00041		
2500	.00164		
2600	.00211		
2700	.00199		
2800	.00318		
2900	.00455		
3000	.00343		
3067	.00170		
3100	.00180		
3200	.00313		
TOTAL	.14754	TOTAL	.17824

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 80PI
LOCATION : STATION - 1 LINE -III

PERIOD : FALL

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.04940	1668	.01240
1668	.28800	1768	.02700
1700	.19400	1796	.01530
1731	.23300	1829	.00452
1749	.10800	1847	.01510
1772	.93600	1894	.01750
1800	.82800	1933	.00358
1834	.46000	1949	.00181
1840	.05670	1995	.01230
1852	.97700	2028	.01060
1882	.41600	2098	.00945
1900	1.09000	2126	.00256
1940	.81800	2151	.00187
1954	.76900	2183	.00944
1985	.33500	2201	.00672
2000	.79200	2254	.00408
2033	1.06000	2303	.00697
2070	.44200	2337	.00262
2100	.49300	2388	.00077
2129	.30300	2405	.00228
2150	.24200	2513	.00774
2200	.26300	2605	.00275
2230	.01600	3090	.00911
2253	.01730	3176	3.47000
2300	.09010		
2400	.06300		
2500	.03450		
2600	.05910		
2700	.04120		
2800	.02650		
2900	.02210		
3000	.02600		
3100	.01290		
TOTAL	11.56180	TOTAL	3.65647 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BORI PERIOD : FALL
LOCATION : STATION - 2 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1410	.09530	1962	.00294
1426	.14000	1995	.00070
1485	.13800	2121	.00082
1519	.26500	2174	.00390
1546	.12100	2373	.03010
1585	.01240	2700	.00111
1610	.03530	2814	.00402
1639	.01330	3312	.02370
1653	.08540		
1668	.08370		
1700	.00720		
1783	.02610		
1829	.05810		
1874	.00100		
1900	.00112		
1939	.00196		
1969	.03370		
2000	.00518		
2100	.00302		
2135	.00465		
2167	.00038		
2200	.00133		
2269	.00147		
2300	.00191		
2378	.01250		
2400	.00174		
2500	.00251		
2600	.00171		
2700	.00366		
2800	.00496		
2900	.00532		
3000	.00566		
3100	.00495		
3200	.00656		
3300	.00320		
TOTAL	1.18929	TOTAL	.06729

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BOTK PERIOD : FALL
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1760	.01530	1763	.00532
1770	.00250	1767	.00182
1772	.00233	1773	.00123
1782	.00303	1786	.00169
1789	.03520	1817	.00135
1800	.00340	1830	.00055
1810	.01730	1890	.00488
1835	.00666	1982	.00299
1837	.04780	2008	.00163
1852	.02820	2031	.00345
1856	.00335	2093	.00367
1872	.00503	2138	.00157
1887	.00422	2181	.00821
1900	.00947	2217	.01040
1955	.00462	2255	.00700
2000	.01010	2368	.00046
2041	.01340	2400	.01170
2100	.02070	2445	.00952
2134	.02560	2477	.00280
2200	.02680	2523	.00188
2244	.00980	2656	.00524
2300	.00523	2792	.00104
2400	.01990	3215	.65700
2442	.02400		
2500	.01420		
2600	.01080		
2700	.00872		
2730	.00642		
2800	.00911		
2900	.01380		
3000	.00833		
3100	.01380		
3103	.01370		
3200	.01190		
TOTAL	.45472	TOTAL	.74540 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 80VH
LOCATION : STATION - 1 LINE -IV PERIOD : FALL

HEXANE ELUATE

RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.02260
1580	.00121
1600	.00133
1668	.00328
1700	.00645
1761	.00458
1772	.00494
1800	.00294
1883	.00556
1900	.00511
1929	.00106
1963	.00331
2000	.00384
2026	.00235
2100	.00685
2142	.00270
2177	.00135
2200	.00465
2242	.00294
2300	.00531
2400	.00484
2500	.00436
2600	.00397
2662	.00542
2700	.00534
2800	.00422
2900	.00515
3000	.00393
3100	.00571
3142	.00350
3200	.00379
3298	.00092
3394	.00202
TOTAL	.14553

BENZENE ELUATE

RETENTION INDEX	CONCENTRATION (UG./G.)
1418	.08270
1459	.30600
1479	.06580
1491	.05360
1588	.30900
1603	.06450
1634	.05290
1824	.24200
1860	.42300
1943	.21200
1964	.09120
1980	.31600
2015	.03930
2040	.04500
2111	.53300
2147	1.81000
2190	.18700
2238	.06340
2264	.07930
2284	.12000
2365	8.00000
2643	.04250
2678	.71000
2967	.04790
3140	14.50000
3196	.15900
3228	.11600
3309	.36500
TOTAL	29.03610 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BOXH PERIOD : FALL
LOCATION : STATION - 2 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00234	1449	.01300
1800	.00835	1476	.01020
1900	.00562	1510	.00531
1960	.00959	1557	.00263
2000	.01260	1576	.00172
2033	.00267	1616	.00442
2100	.01130	1763	.00287
2200	.01780	1956	.00281
2300	.00595	2012	.00127
2347	.02720	2090	.00339
2400	.01290	2120	.00108
2500	.00405	2147	.00304
2600	.00627	2183	.00325
2700	.00973	2248	.00490
2800	.01120	2276	.00154
2900	.00521	2342	.05830
3000	.00524	2428	.00549
3051	.01730	2475	.00262
3100	.02150	2720	.00611
3200	.08910	2857	.00246
3300	.09440	3030	.01870
3400	.01300	3109	.02660
		3244	.10900
		3274	.00155
		3361	.00366
		3392	.00295
TOTAL	.39332	TOTAL	.29887 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BOZJ
LOCATION : STATION - 3 LINE -IV

PERIOD : FALL

HEXANE ELUATE

RETENTION INDEX	CONCENTRATION (UG./G.)
1800	.00029
1900	.00070
2000	.00076
2100	.00042
2131	.00091
2200	.00196
2300	.00054
2382	.00450
2500	.00141
2600	.00100
2700	.00367
2755	.00171
2800	.00123
2900	.00156
3000	.00179
3100	.00167
TOTAL	.02412

BENZENE ELUATE

RETENTION INDEX	CONCENTRATION (UG./G.)
1499	.00588
1523	.01260
1541	.03150
1549	.03090
1571	.02260
1584	.00378
1593	.01420
1635	.00814
1651	.00603
1664	.02060
1679	.02470
1754	.03750
1789	.01060
1833	.02160
1864	.05560
1911	.01440
1973	.02170
1999	.03510
2052	.01960
2098	.03740
2145	.08170
2199	.12000
2261	.02700
2303	.00878
2352	.00503
2367	.00464
2385	.00314
2426	.00379
2461	.13900
2634	.02300
2771	.00457
2811	.00579
2921	.03260
3043	.08360
3212	.33200
TOTAL	1.30907

TABLE

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : BOZX PERIOD : FALL
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1668	.00249	1445	.01460
1700	.00202	1498	.18100
1772	.00605	1529	.16300
1800	.00609	1555	.13800
1821	.00400	1580	.04210
1854	.00229	1589	.04030
1900	.00189	1600	.02980
1957	.00615	1616	.03160
1985	.00588	1657	.19500
2000	.00631	1672	.08810
2032	.00060	1715	.06250
2053	.00093	1757	.06100
2100	.00834	1787	.07470
2128	.00192	1833	.19000
2167	.00351	1866	.03980
2200	.01040	1923	.03610
2269	.00329	1942	.01330
2300	.00155	1973	.13300
2380	.01740	2011	.05870
2400	.00464	2058	.00871
2486	.00156	2115	.02300
2600	.00469	2135	.00688
2700	.00142	2185	.28900
		2264	.00847
		2383	.02970
		2468	.01350
		2491	.06030
		2538	.02370
		2568	.01610
		2629	.06110
		2790	.01440
		2993	.09890
		3098	.32500
		3181	95.20000
		3227	1.81000
		3257	8.13000
TOTAL	.10342	TOTAL	107.71136 ✓

TABLE 3 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : DIS
SAMPLE CODE : 8OZZ
LOCATION : STATION - 3 LINE -IV

PERIOD : FALL

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1451	.02920	1427	.09130
1481	.02220	1471	.23700
1500	.03520	1488	.59200
1519	.01190	1502	.40600
1539	.00731	1528	.32500
1552	.03220	1553	.15400
1575	.00730	1600	.11700
1591	.01870	1616	.14600
1600	.01380	1632	.38000
1634	.00110	1645	.38000
1662	.00208	1691	.10000
1677	.00328	1722	.28400
1700	.00149	1758	.10500
1720	.00297	1772	.07210
1763	.01150	1803	.20300
1779	.01400	1841	.31400
1873	.00231	1877	.07570
1883	.00196	1938	.08830
1900	.00051	1964	.09950
1966	.00389	2060	.13800
2000	.00175	2146	.38500
2055	.00166	2175	.40400
2200	.00061	2220	.07180
2243	.00169	2340	.06220
2400	.00162	2384	.11600
2800	.00142	2393	9.41000
2900	.00074	2714	.35400
3200	.00178	2748	.70400
		2825	.40700
		3168	1.22000
		3262	.36100
TOTAL	.23417	TOTAL	17.80290 ✓

TABLE 4

GLC ANALYSES OF SEDIMENT HIGH-MOLECULAR-WEIGHT HYDROCARBON SAMPLES

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : BBED
LOCATION : STATION - 1 LINE -I

PERIOD : WINTER

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00543	1998	.00190
1668	.00799	2043	.00300
1740	.01290	2149	.01130
1772	.00181	2230	.00231
1800	.00881	2642	.00380
1900	.00915	2739	.00369
2000	.00136	2901	.00192
2100	.00739	3032	.00517
2200	.00397	3297	.00178
2300	.00932		
2400	.00570		
2500	.00932		
2565	.00321		
2640	.00714		
2700	.01720		
2815	.13400		
2900	.02250		
3000	.00398		
3100	.01310		
3200	.00093		
3300	.00691		
TOTAL	.29212	TOTAL	.03487

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : 88GC
LOCATION : STATION - 2 LINE -I

PERIOD : WINTER

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00110	2071	.00178
1600	.00224	2159	.00191
1668	.00119	2210	.00067
1700	.00371	2321	.00064
1772	.00038	2432	.00025
1800	.00219	2488	.00010
1900	.00293	2531	.00025
2000	.00059	2571	.00016
2050	.00245	2642	.00310
2100	.00189	2766	.00128
2168	.00649	2799	.00038
2200	.00132	2830	.00038
2300	.00268	2882	.00016
2400	.00242	2958	.00106
2500	.00517	3271	.00209
2600	.00236		
2700	.01060		
2800	.00411		
2900	.02210		
3000	.00379		
3100	.02960		
3200	.00123		
3300	.01290		
TOTAL	.12344	TOTAL	.01421

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : 8BIA PERIOD : WINTER
LOCATION : STATION - 3 LINE -I

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00232	1551	.00116
1600	.00536	1591	.00235
1668	.00410	1635	.00068
1700	.01050	1655	.00251
1772	.00220	1696	.00223
1800	.00665	1758	.00176
1900	.00513	1995	.00162
2000	.00301	2113	.00092
2100	.00369	2149	.00155
2200	.00312	2222	.00163
2300	.00591	2508	.00067
2400	.00466	2617	.00113
2500	.00804		
2600	.00539		
2700	.01690		
2800	.00866		
2900	.02440		
3000	.00635		
3100	.02370		
3200	.00330		
3278	.00290		
3300	.01440		
TOTAL	.17069	TOTAL	.01821

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : BHHT PERIOD : SPRING
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1668	.00621	1982	.00410
1700	.00824	2070	.01170
1772	.00118	2209	.00667
1800	.00585	2237	.00620
1900	.00575	2324	.00447
2000	.00219	2432	.00685
2042	.03590	2637	.00578
2100	.00948		
2148	.04540		
2200	.00279		
2300	.01250		
2368	.00627		
2400	.01010		
2500	.02960		
2600	.01880		
2700	.05960		
2800	.02400		
2900	.12800		
3000	.02420		
3100	.17400		
3200	.01100		
3300	.11300		
TOTAL	.73406	TOTAL	.04577

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : BJXT PERIOD : SPRING
LOCATION : STATION - 1 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00058	1725	.00091
1600	.00227	1813	.00124
1668	.00278	1899	.00242
1700	.00516	2099	.00387
1772	.00147	2186	.00022
1800	.00338	2352	.00024
1863	.00071	2551	.00022
1900	.00673	2667	.00293
1947	.00076	2808	.00022
1969	.00078	3099	.00031
2000	.00451	3167	.00062
2055	.00124	3381	.00087
2100	.00504		
2200	.00553		
2300	.00447		
2400	.00396		
2500	.00589		
2600	.00616		
2700	.00820		
2800	.00416		
2900	.01240		
3000	.00484		
3100	.01380		
3200	.00551		
3300	.00573		
3391	.00709		
TOTAL	.12315	TOTAL	.01407

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : BHKK   PERIOD : SPRING
LOCATION : STATION - 2 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1400	.00443	1535	.00063
1491	.00806	1703	.00104
1600	.00281	1731	.00084
1668	.00226	1811	.00137
1700	.00223	1920	.00177
1707	.00630	2032	.00207
1772	.00035	2092	.00296
1800	.00228	2116	.00434
1900	.00096	2149	.00439
1921	.00033	2203	.01210
2000	.00132	2256	.00760
2100	.00216	2364	.00717
2131	.00389	2475	.00480
2200	.00201	2564	.00472
2235	.00265	2617	.00153
2300	.00334	2690	.02100
2400	.00291	2764	.00578
2500	.00660	2798	.00065
2552	.00060	2823	.00084
2600	.00560	2863	.00423
2700	.01460	2895	.01250
2800	.01090	2963	.02410
2900	.03080	3036	.00449
3000	.01410	3057	.01020
3100	.05580	3099	.01900
3200	.02380	3166	.02610
3300	.04610	3218	.00195
3341	.01250	3288	.00521
		3355	.01520
TOTAL	.26969	TOTAL	.20858

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : BHNB PERIOD : SPRING
LOCATION : STATION - 3 LINE -II

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1640	.00010	1932	.00045
1668	.00172	2007	.00101
1700	.00256	2059	.00083
1752	.00046	2091	.00039
1772	.00090	2160	.00226
1800	.00233	2326	.00016
1855	.00162	2410	.00085
1900	.00332	2471	.00033
1944	.00069	2509	.00052
2000	.00177	2613	.00322
2047	.00086	2711	.00016
2100	.00376	2780	.00032
2200	.00380	2908	.00254
2300	.00610	3110	.00576
2350	.00073	3249	.02810
2400	.00383	3321	.01750
2500	.00998		
2554	.00087		
2600	.00649		
2700	.02300		
2756	.00080		
2800	.00797		
2853	.00036		
2900	.04570		
3000	.00883		
3048	.00203		
3100	.06520		
3200	.01120		
3300	.03420		
3399	.00104		
TOTAL	.25222	TOTAL	.06440

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : BSEJ
LOCATION : STATION - 1 LINE -III PERIOD : FALL

HEXANE ELUATE

RETENTION INDEX	CONCENTRATION (UG./G.)
1400	.00160
1500	.00373
1600	.00189
1668	.00238
1700	.00531
1772	.00116
1800	.00251
1900	.00491
1917	.00082
1960	.00324
2000	.00364
2044	.03860
2074	.00322
2100	.01360
2184	.00280
2200	.00482
2300	.02420
2351	.00244
2400	.02210
2452	.00207
2500	.00830
2556	.00844
2600	.05970
2700	.17500
2800	.04540
2900	.29400
3000	.04920
3100	.37400
3200	.07010
3300	.36700
3400	.05380
3500	.13900
3600	.07980
TOTAL	1.95878

BENZENE ELUATE

RETENTION INDEX	CONCENTRATION (UG./G.)
1400	.00713
1425	.00907
1473	.00987
2138	.04020
2631	.00593
2694	.00456
2756	.00696
2823	.00556
3039	.01590
3092	.02850
3154	.03970
3181	.02470
3200	.02130
3245	.06710
3281	.03560
3312	.03120
3338	.04010
3362	.07240
TOTAL	.46578

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : 8QGO PERIOD : FALL
LOCATION : STATION - 2 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1600	.00013	1871	.00069
1634	.00020	1986	.00018
1668	.00047	2039	.00016
1700	.00113	2137	.00964
1772	.00011	2199	.00298
1800	.00109	2381	.00224
1854	.00131	2452	.00100
1900	.00140	2612	.00296
2000	.00056	2705	.00249
2047	.00036	2748	.00251
2073	.00016	2825	.00158
2100	.00182	2875	.00244
2200	.00247	2975	.00098
2300	.00316	3072	.00253
2354	.00031	3111	.00256
2400	.00191	3172	.00956
2500	.00522	3199	.00778
2557	.00038	3280	.01360
2600	.00344	3382	.02040
2700	.01380		
2800	.00520		
2855	.00031		
2900	.02660		
3000	.00684		
3052	.00244		
3100	.03620		
3200	.00456		
3300	.01440		
TOTAL	.13598	TOTAL	.08628

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : BSEK PERIOD : FALL
LOCATION : STATION - 2 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00351	1964	.00716
1600	.00287	2055	.01140
1656	.00347	2136	.03070
1668	.00518	2177	.00616
1700	.01010	2292	.00467
1772	.00176	2391	.00380
1800	.00871	2457	.00584
1848	.01080	2498	.00436
1900	.01180	2605	.02100
1970	.00729	2737	.01210
2000	.00553	2801	.01700
2054	.01650	2996	.03620
2100	.02500	3059	.01300
2200	.01190	3089	.01440
2300	.01680	3189	.09300
2352	.00236	3221	.07840
2400	.00976	3350	.12600
2453	.00104		
2500	.03020		
2552	.00247		
2600	.01620		
2700	.06700		
2753	.00484		
2800	.02060		
2851	.00082		
2900	.13500		
2959	.00164		
3000	.02150		
3039	.00713		
3100	.18900		
3200	.03080		
3300	.07650		
TOTAL	.75808	TOTAL	.48519

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : BSEL PERIOD : FALL
LOCATION : STATION - 3 LINE -III

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00142	2025	.00207
1600	.00111	2111	.00524
1668	.00251	2158	.00140
1700	.00549	2269	.00029
1772	.00038	2375	.00122
1800	.00282	2425	.00116
1856	.00229	2466	.00216
1900	.00342	2578	.00540
1944	.00158	2741	.00122
2000	.00293	2777	.00104
2045	.00284	2833	.00147
2100	.00380	3027	.00376
2200	.00431	3209	.00298
2300	.00733	3296	.00393
2400	.00571		
2500	.01400		
2559	.00091		
2600	.00902		
2700	.03600		
2752	.00400		
2840	.01710		
2900	.07540		
3000	.01250		
3100	.09000		
3200	.00760		
3311	.00916		
3374	.07830		
TOTAL	.40193	TOTAL	.03334

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : 8BIZ
PERIOD : WINTER
LOCATION : STATION - 1 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1400	.03030	1537	.00219
1451	.00269	1579	.00753
1500	.00165	1646	.00637
1600	.02540	1690	.00480
1629	.00802	1767	.00618
1668	.00475	2082	.01310
1700	.01190	2160	.00541
1772	.00139	3018	.12700
1800	.01550		
1841	.00531		
1900	.00783		
2000	.00624		
2041	.01260		
2100	.00611		
2200	.00557		
2300	.01060		
2400	.00569		
2500	.01850		
2600	.01710		
2700	.04470		
2800	.01320		
2900	.10800		
3000	.01610		
3100	.12700		
3200	.06210		
3200	.00241		
TOTAL	.57066	TOTAL	.17258

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : BIJT PERIOD : SPRING
LOCATION : STATION - 2 LINE -IV

HEXANE ELUATE RETENTION INDEX	HEXANE ELUATE CONCENTRATION (UG./G.)	BENZENE ELUATE RETENTION INDEX	BENZENE ELUATE CONCENTRATION (UG./G.)
1600	.00150	2099	.00044
1648	.00298	2147	.01210
1668	.00544	2390	.00410
1700	.00620	2595	.00397
1772	.00095	2628	.00838
1800	.00302	2723	.00286
1853	.00499	2767	.00212
1900	.00515	2897	.00500
1948	.00097	2919	.00343
1973	.00122	2967	.00067
2000	.00290	3093	.00672
2047	.00825	3128	.00763
2076	.00333	3203	.01790
2100	.01310	3304	.01170
2147	.00059		
2200	.00962		
2300	.01600		
2350	.00204		
2400	.00981		
2500	.02720		
2554	.00151		
2600	.01720		
2700	.06550		
2757	.00405		
2800	.02210		
2852	.00174		
2900	.13900		
3000	.02530		
3047	.00837		
3100	.21200		
3200	.03380		
3231	.02810		
3300	.12700		
3399	.06270		
TOTAL	.87363	TOTAL	.08702

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : 3QTX　　　　　　　　PERIOD : FALL
LOCATION : STATION - 3　LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1500	.00193	1424	.00562
1600	.00116	1475	.00531
1668	.00304	1760	.00120
1700	.00476	1849	.00056
1772	.00062	1900	.00082
1800	.00227	1958	.00311
1857	.00191	1983	.00116
1900	.00131	2031	.00102
1944	.00131	2135	.00638
2000	.00169	2454	.00073
2048	.00304	2486	.00071
2100	.00324	2600	.00236
2200	.00331	2738	.00458
2300	.00489	2867	.00189
2400	.00353	3028	.00289
2500	.00964	3070	.00087
2600	.00860		
2700	.02190		
2750	.00173		
2800	.00916		
2900	.04990		
3000	.01200		
3100	.06970		
3200	.00602		
3295	.00542		
3373	.03060		
TOTAL	.26268	TOTAL	.03921

TABLE 4 CONT.'D

HEAVY HYDROCARBON ANALYSIS - STOCS - 1977

SAMPLE TYPE : CHG
SAMPLE CODE : BSEM PERIOD : FALL
LOCATION : STATION - 3 LINE -IV

HEXANE ELUATE		BENZENE ELUATE	
RETENTION INDEX	CONCENTRATION (UG./G.)	RETENTION INDEX	CONCENTRATION (UG./G.)
1400	.00104	1404	.00498
1500	.00202	1414	.01210
1600	.00140	1465	.01160
1668	.00198	1704	.00391
1700	.00291	2136	.00511
1772	.00080	2898	.00558
1800	.00184	3096	.01210
1900	.00258	3159	.00842
1917	.00104	3186	.01090
1945	.00189	3264	.02360
1973	.00098	3290	.00853
2000	.00196	3344	.02220
2046	.00333	3372	.02040
2076	.00131		
2100	.00376		
2185	.00087		
2200	.00216		
2300	.00384		
2400	.00300		
2500	.00827		
2600	.00727		
2700	.02060		
2800	.01190		
2900	.04500		
3000	.00813		
3100	.06080		
3200	.01760		
3268	.00267		
3300	.03780		
3335	.00056		
3370	.00562		
TOTAL	.26493	TOTAL	.14943

FIGURE 1

ODD-EVEN PREFERENCE CURVES FOR ZOOPLANKTON HIGH-MOLECULAR-WEIGHT HYDROCARBON SAMPLES

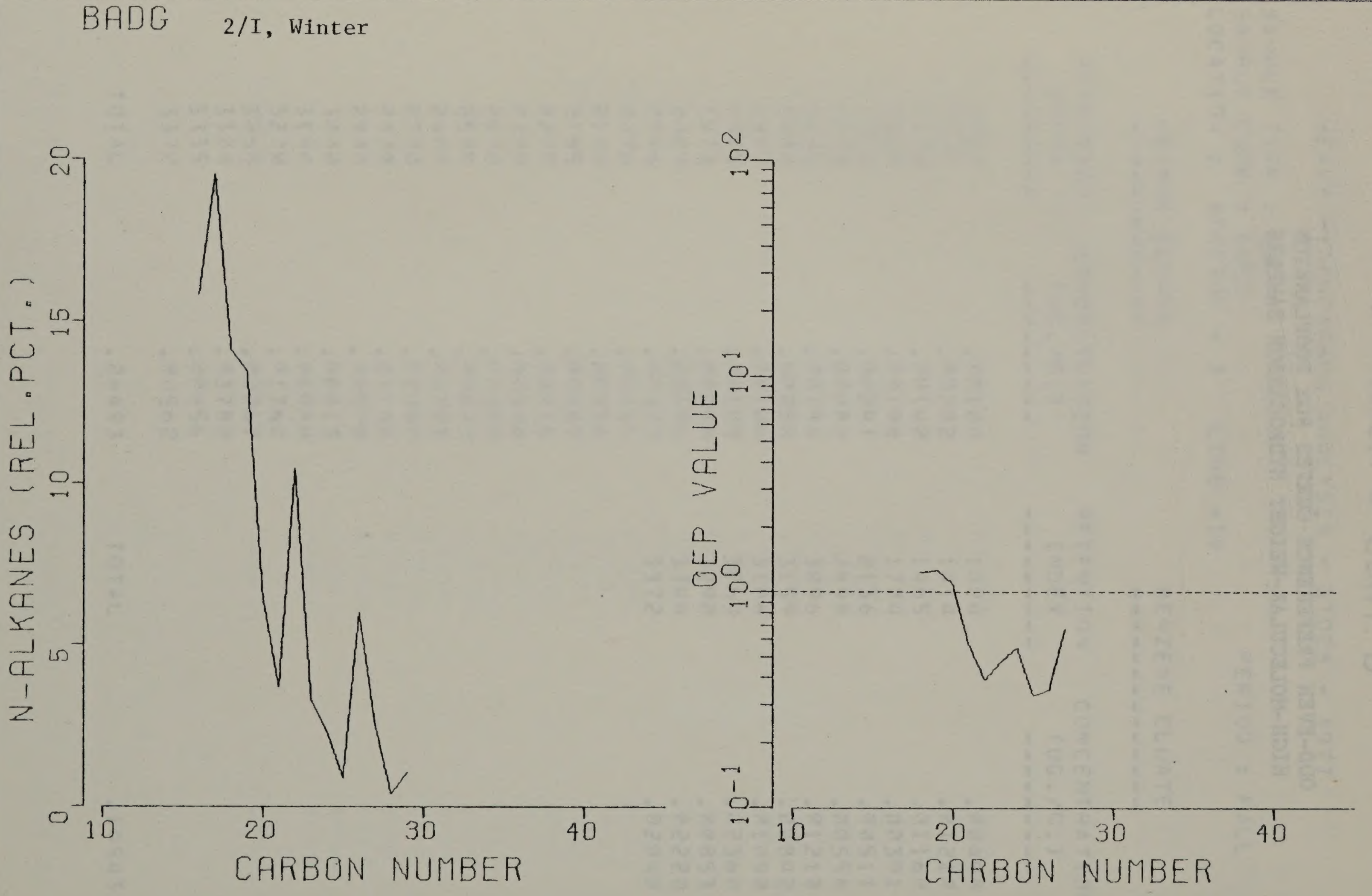


FIGURE 1 CONT.'D

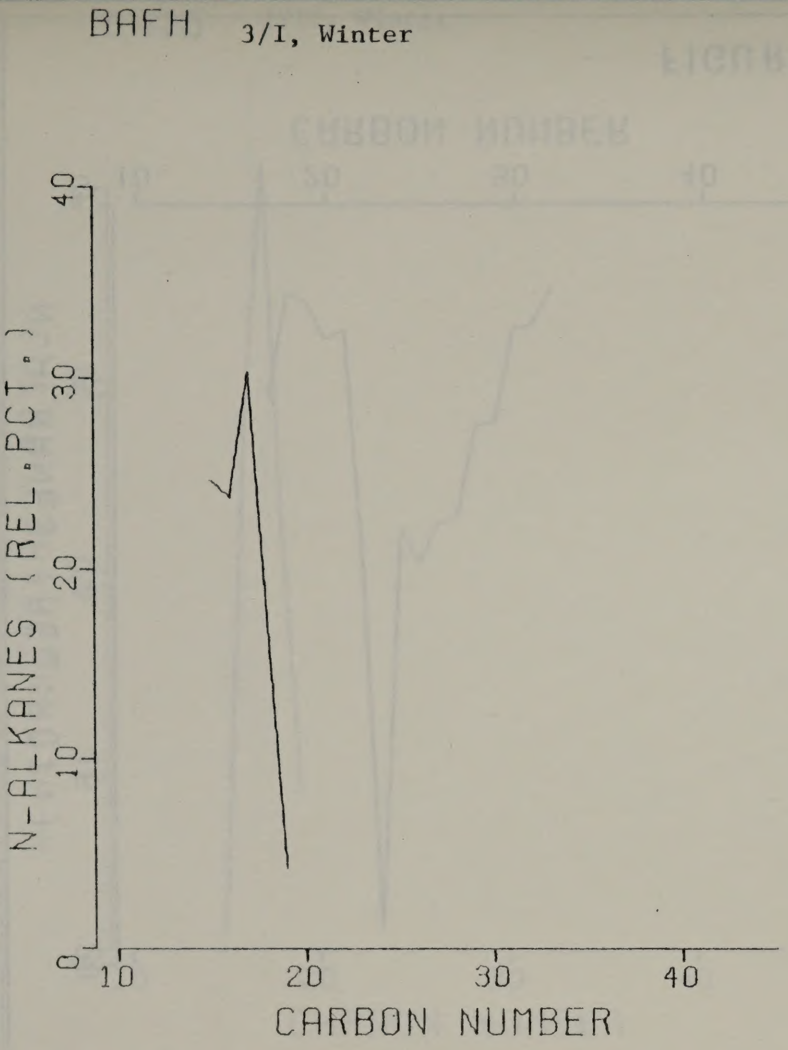


FIGURE 1 CONT.'D

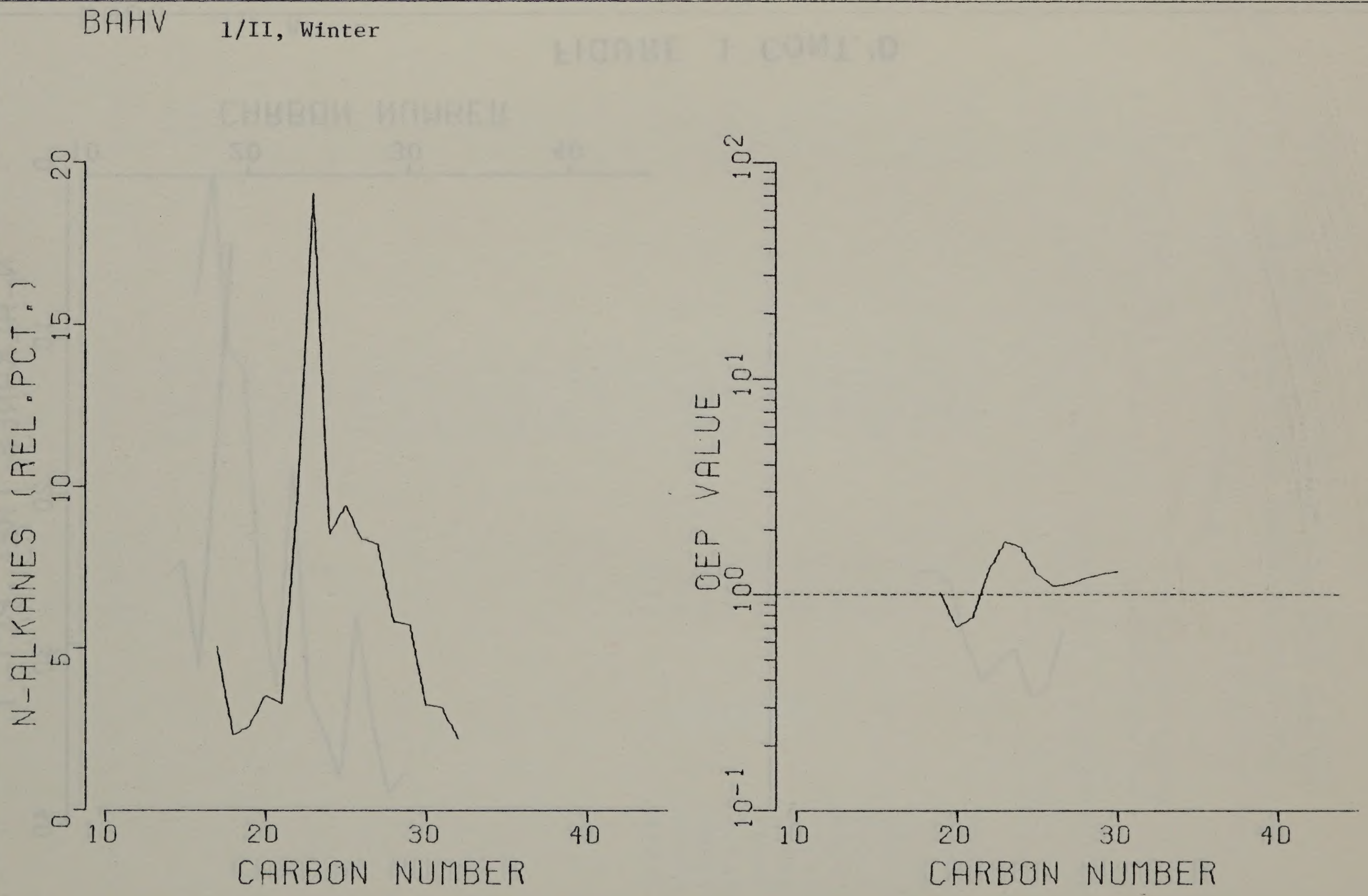


FIGURE 1 CONT.'D

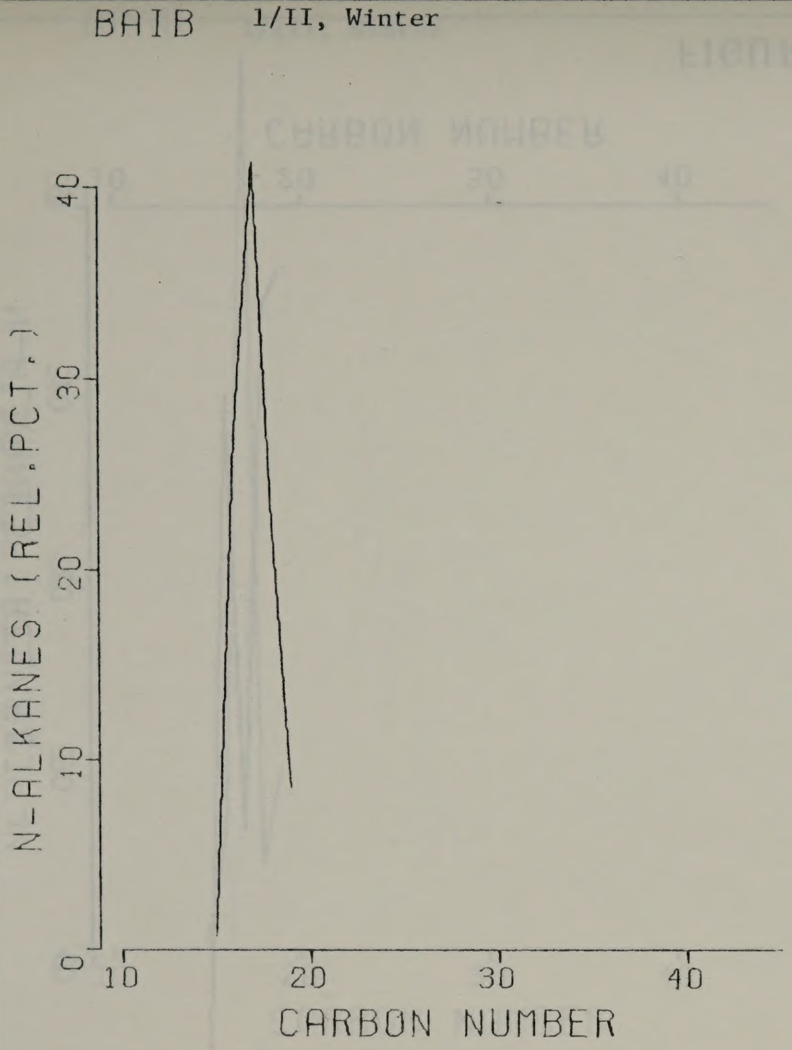


FIGURE 1 CONT.'D

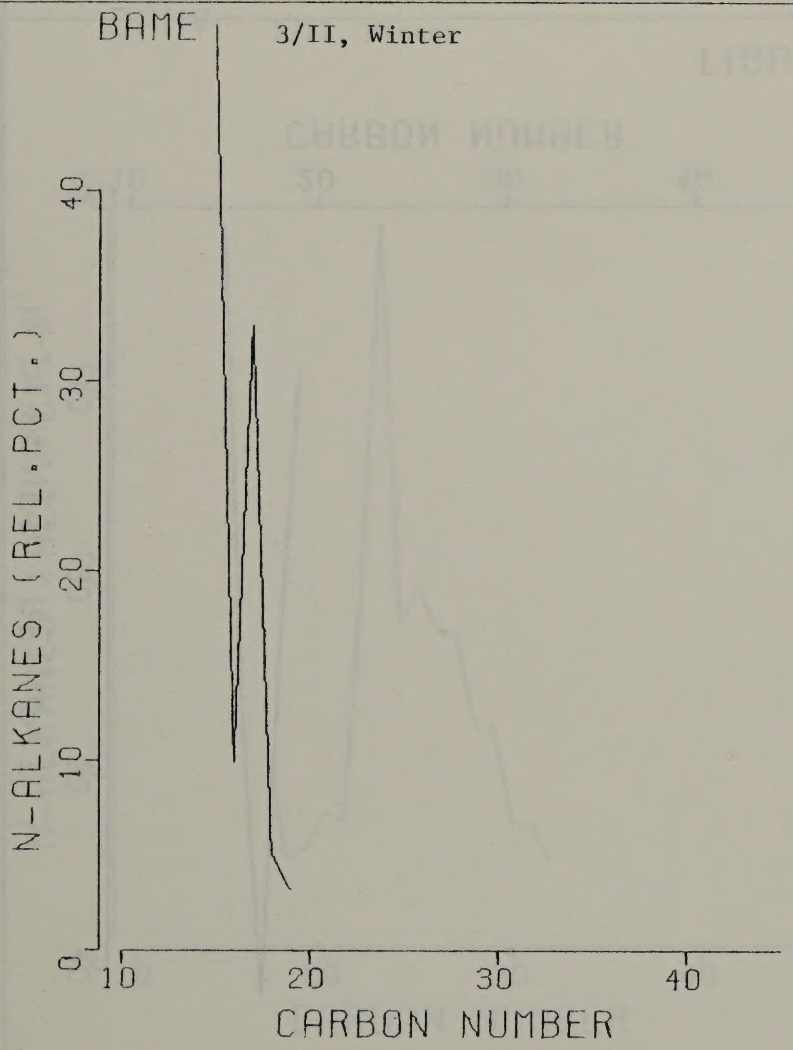


FIGURE 1 CONT.'D

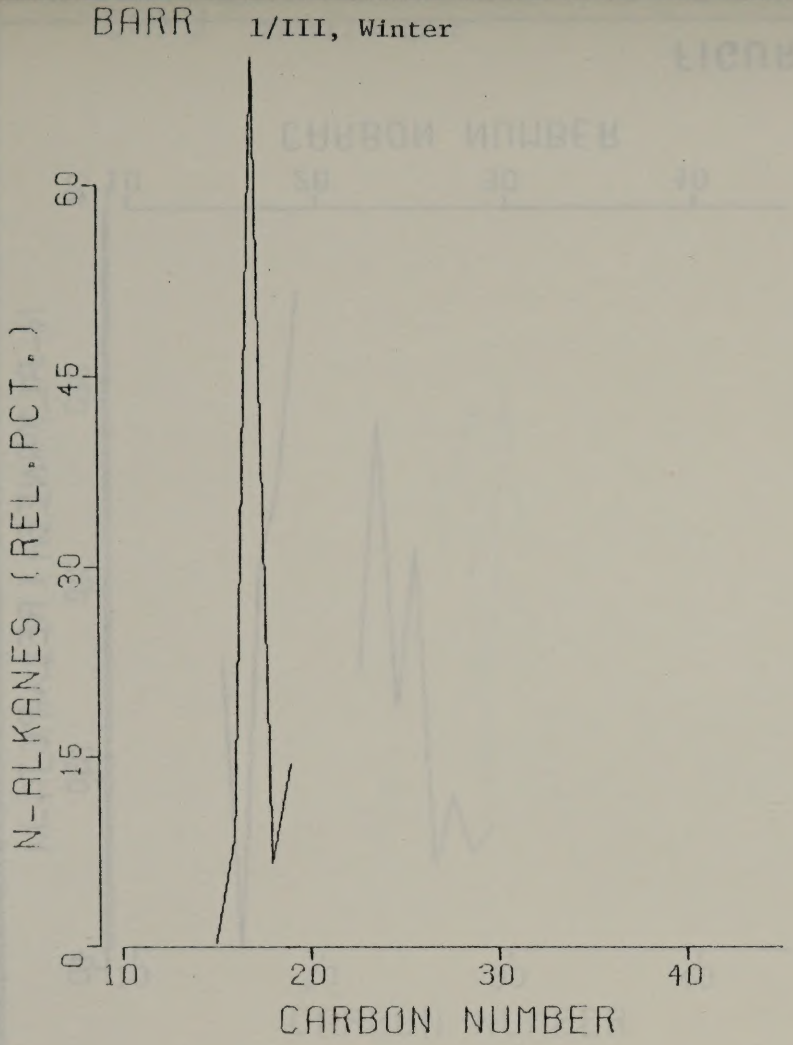


FIGURE 1 CONT.'D

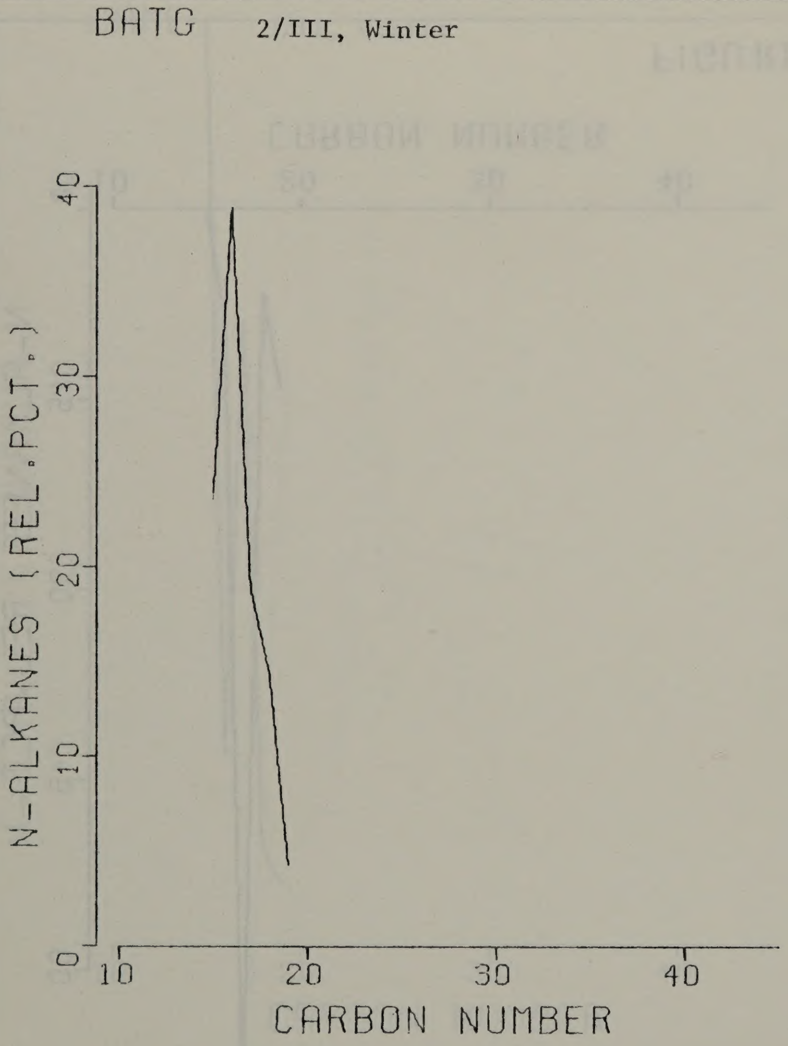


FIGURE 1 CONT.'D

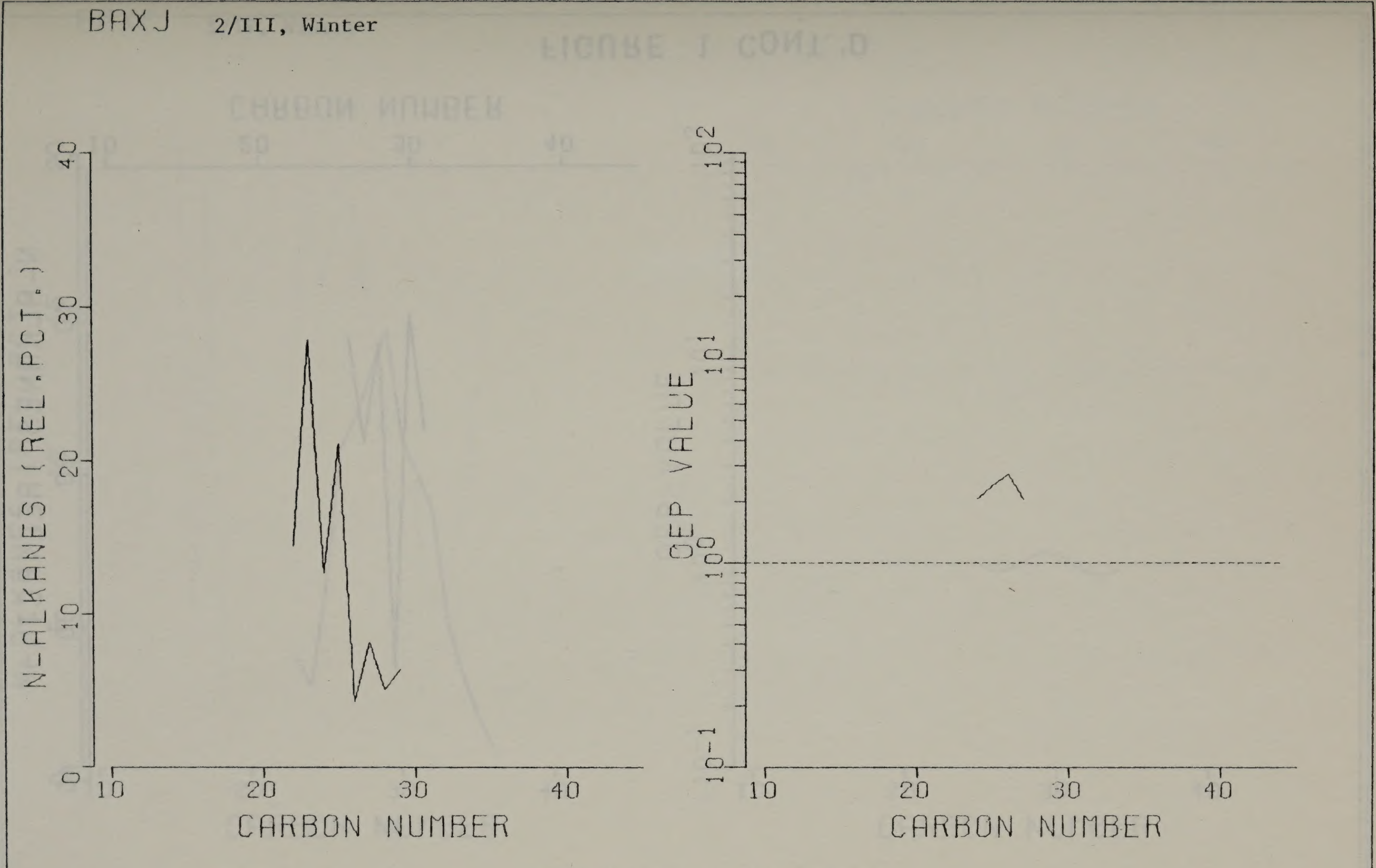


FIGURE 1 CONT.'D

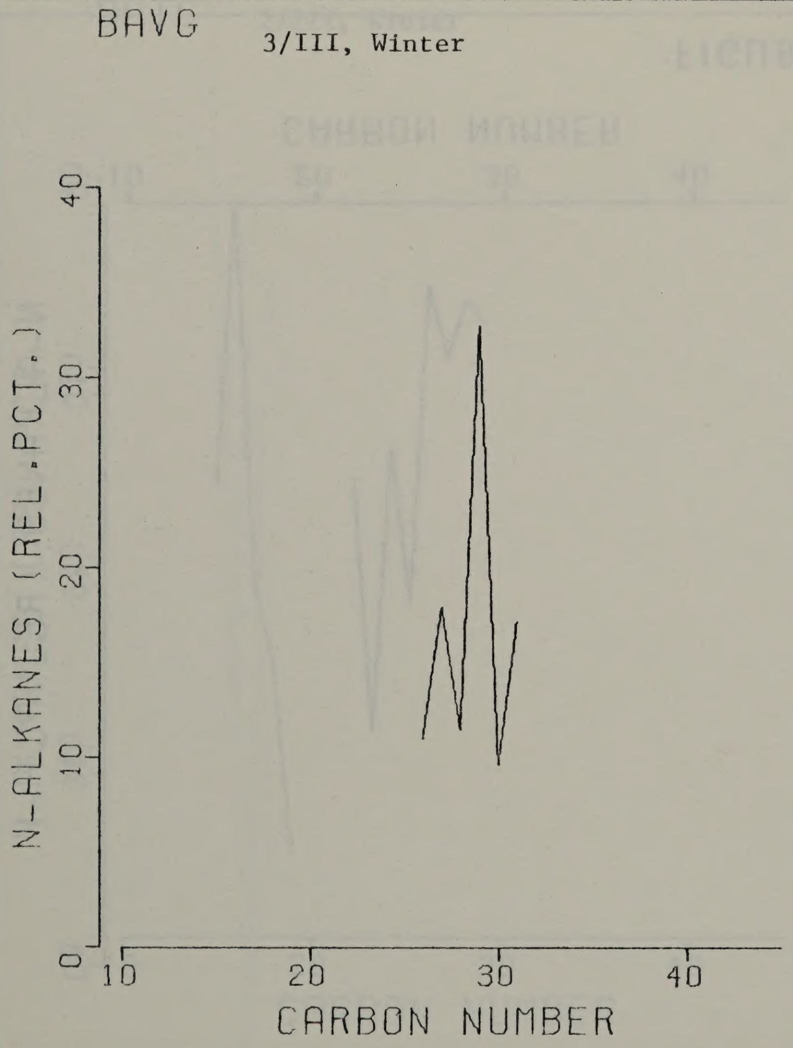


FIGURE 1 CONT.'D

BAXE 1/IV, Winter

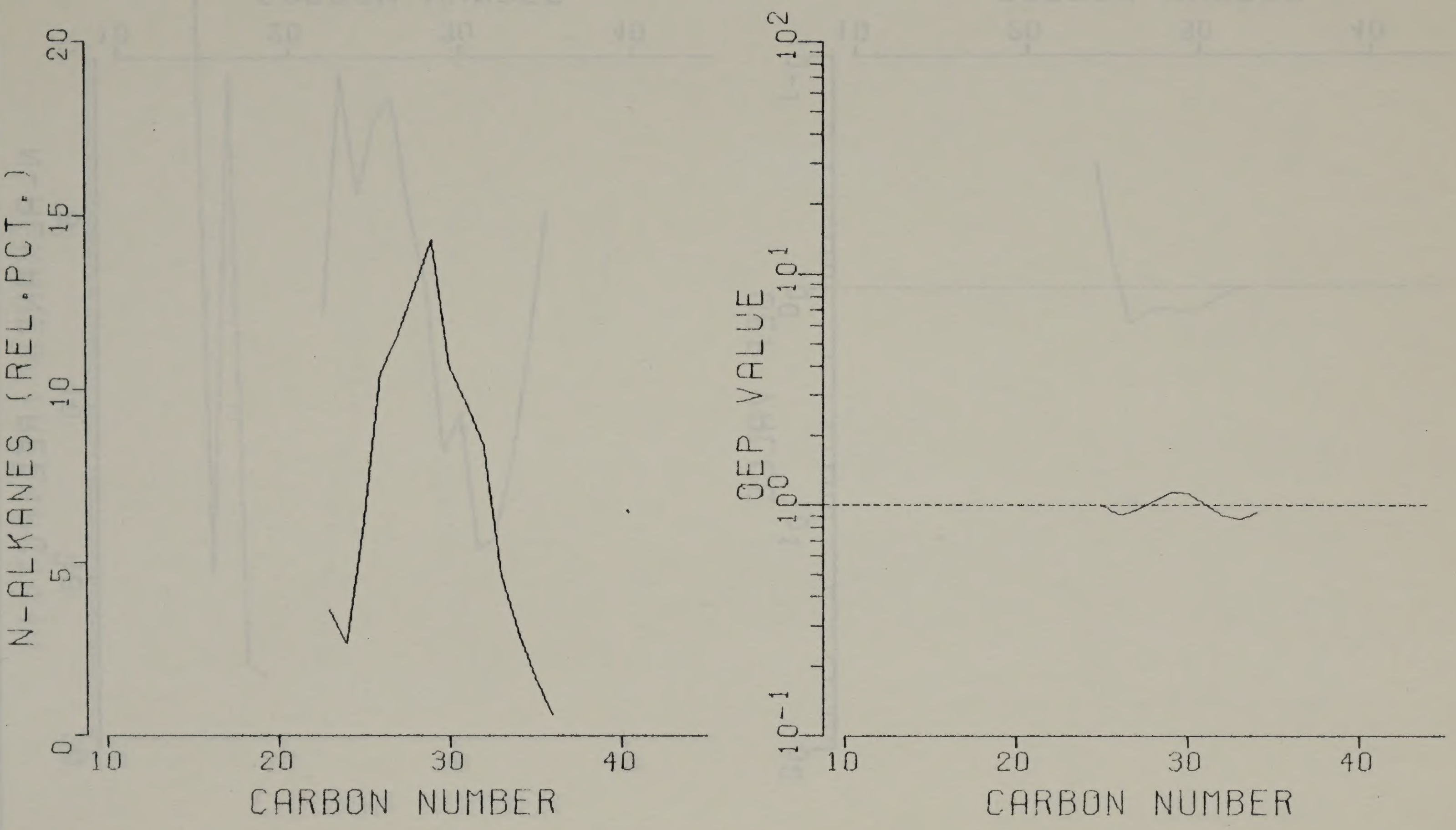


FIGURE 1 CONT.'D

BAZD 2/IV, Winter

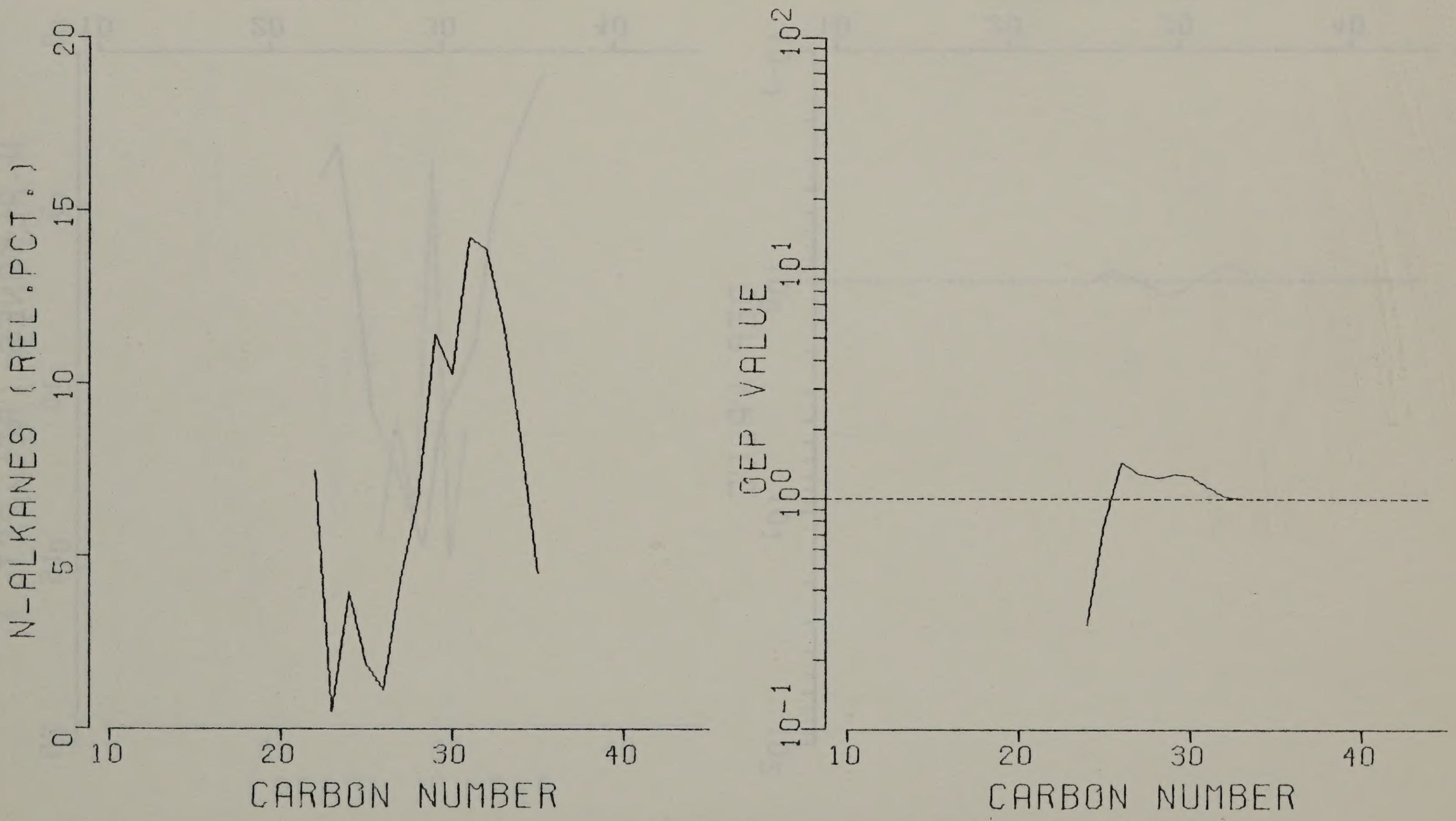


FIGURE 1 CONT.'D

BBBD 3/IV, Winter

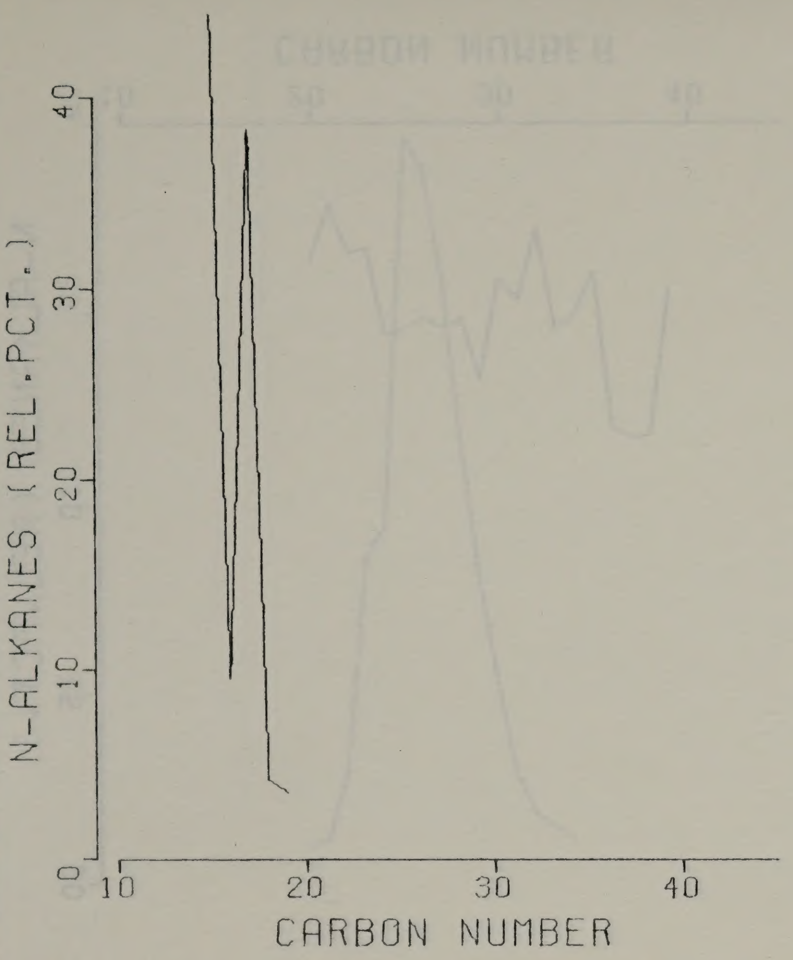


FIGURE 1 CONT.'D

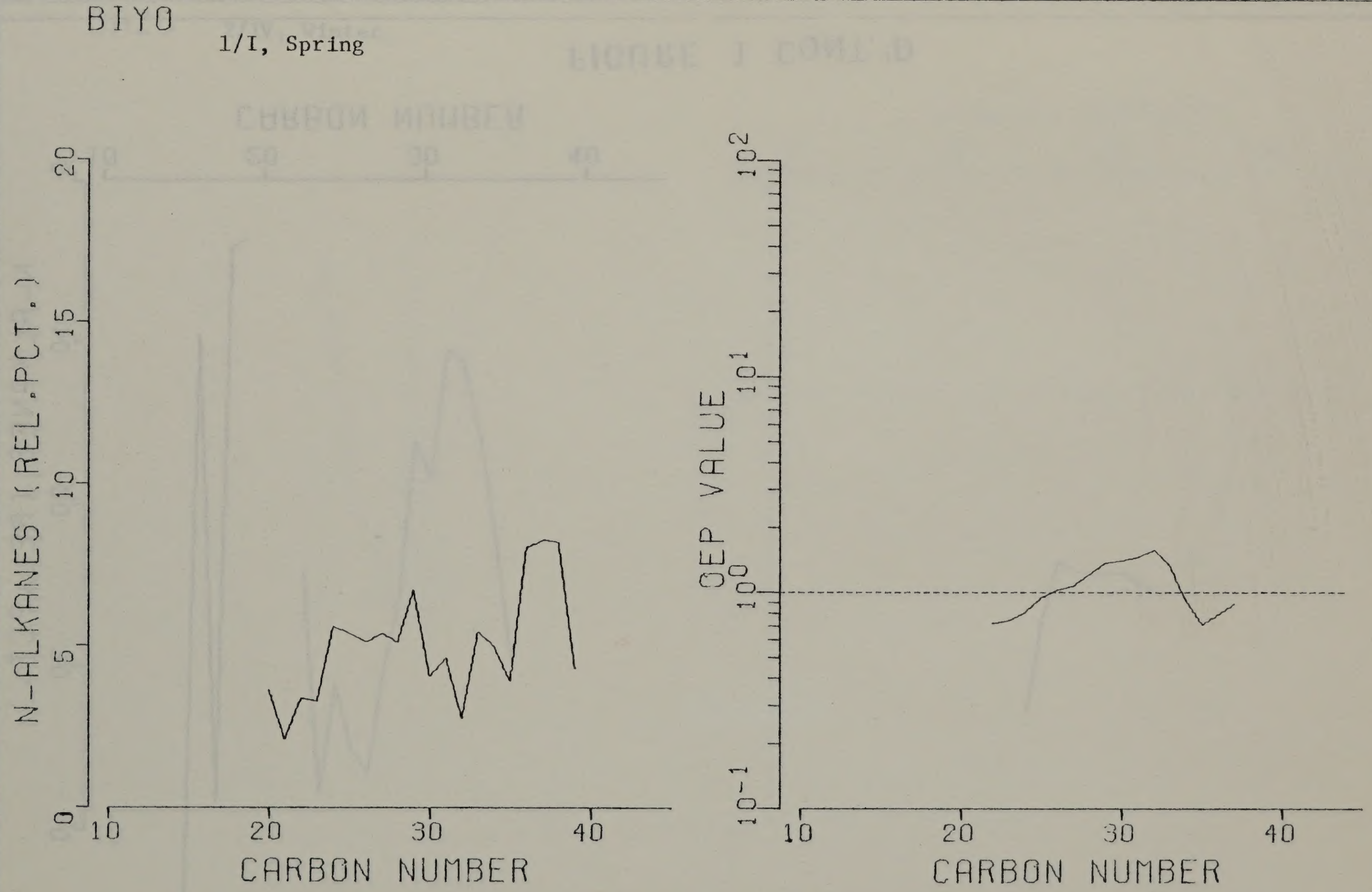


FIGURE 1 CONT.'D

BJAQ 2/I, Spring

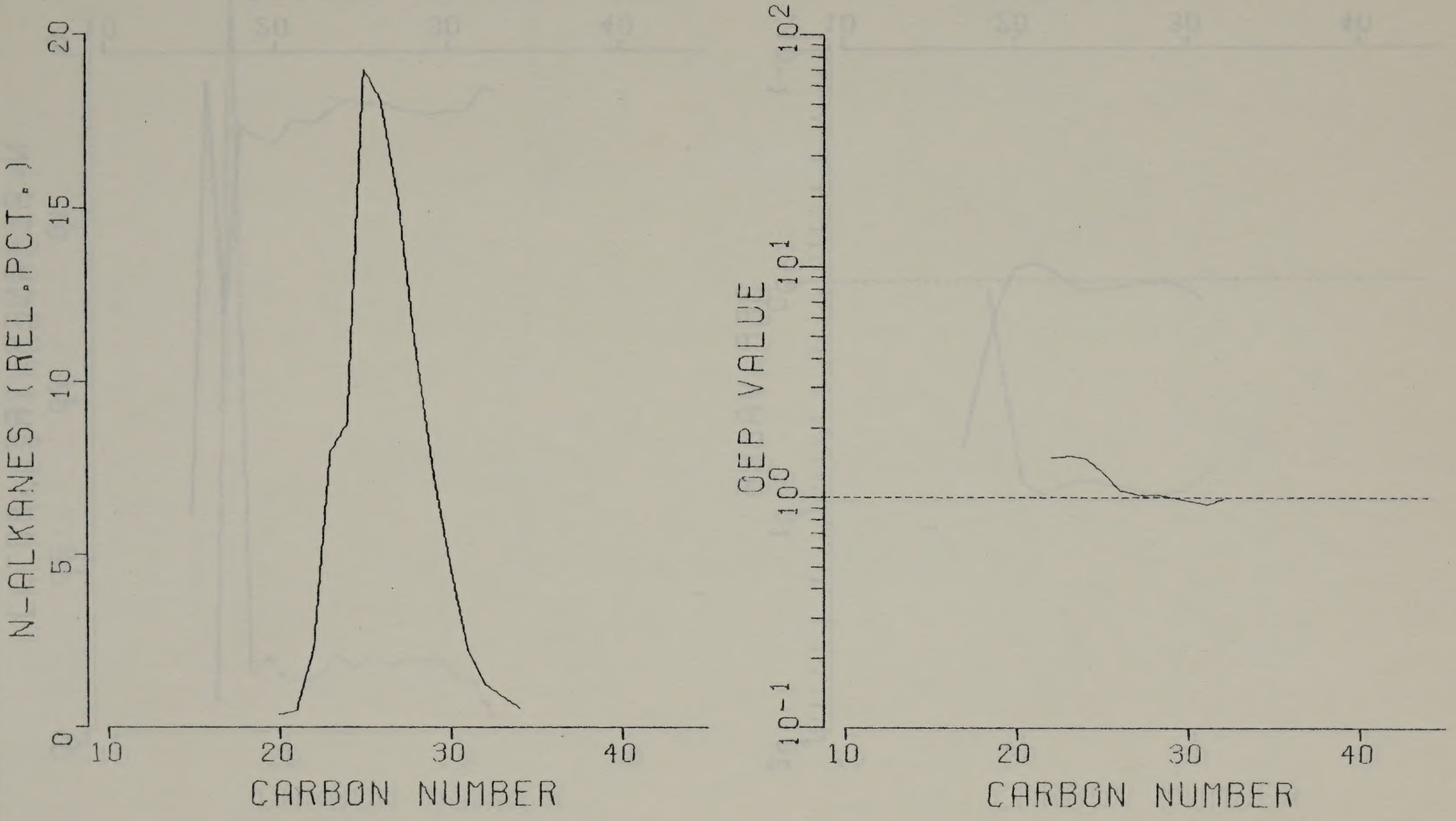


FIGURE 1 CONT.'D

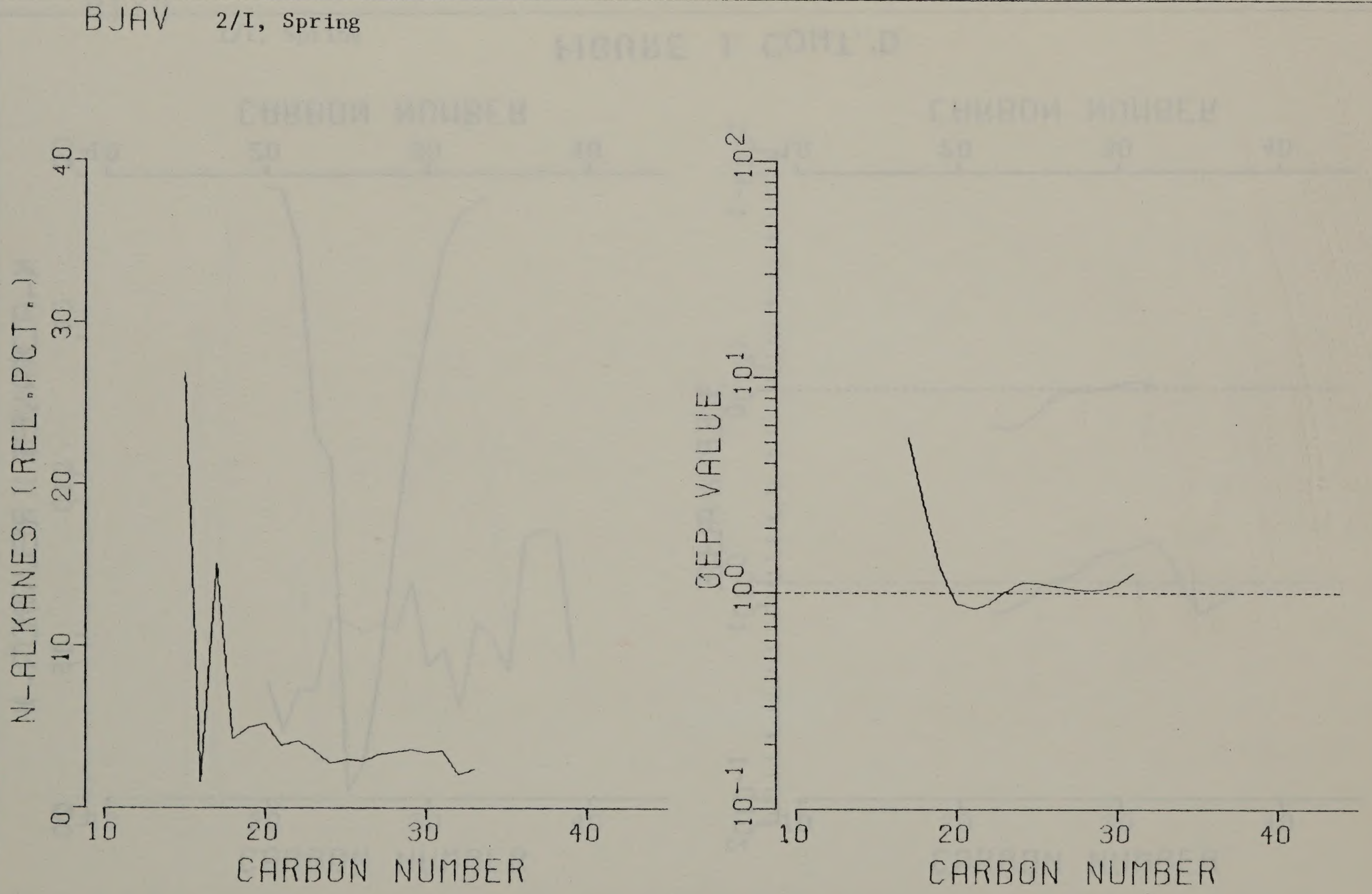


FIGURE 1 CONT.'D

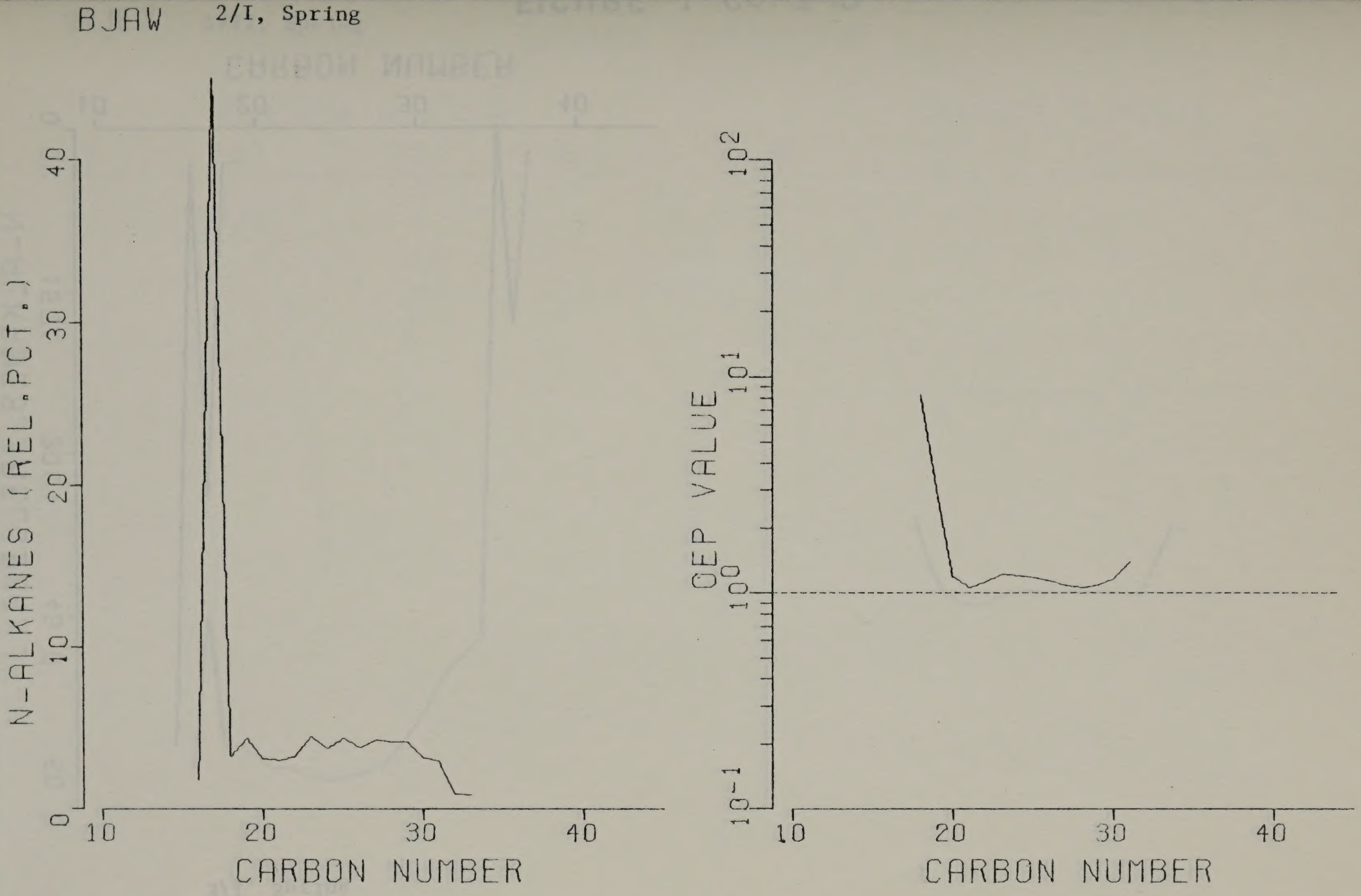


FIGURE 1 CONT.'D

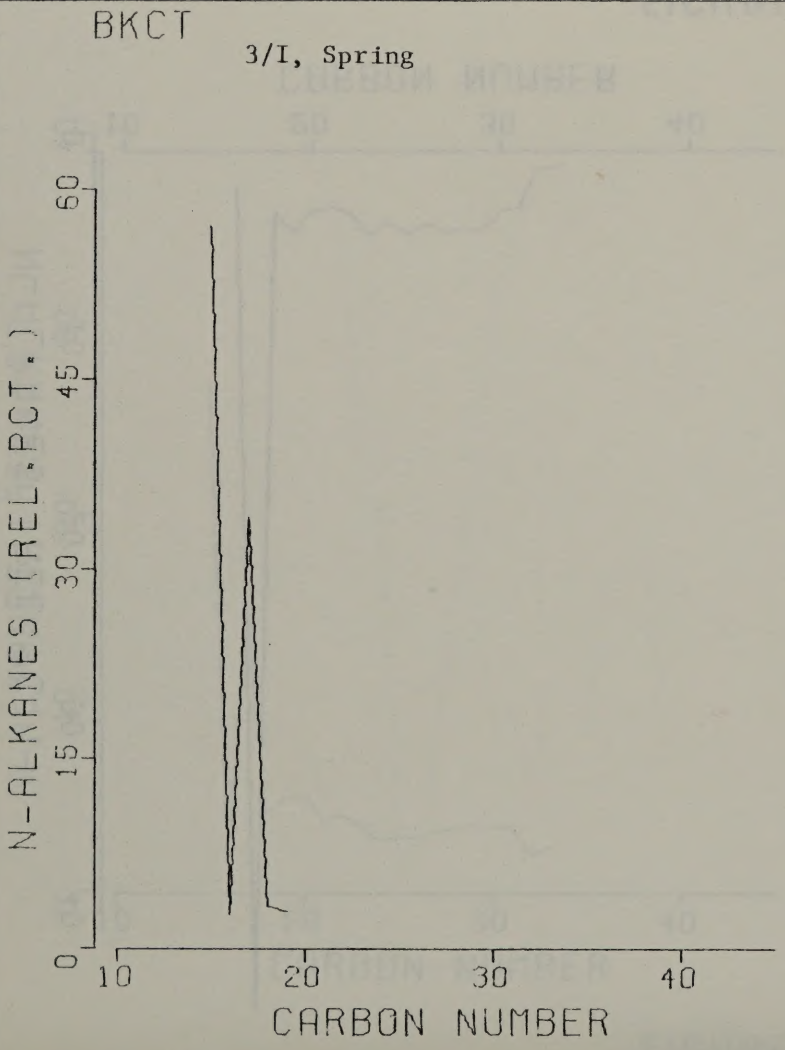


FIGURE 1 CONT.'D

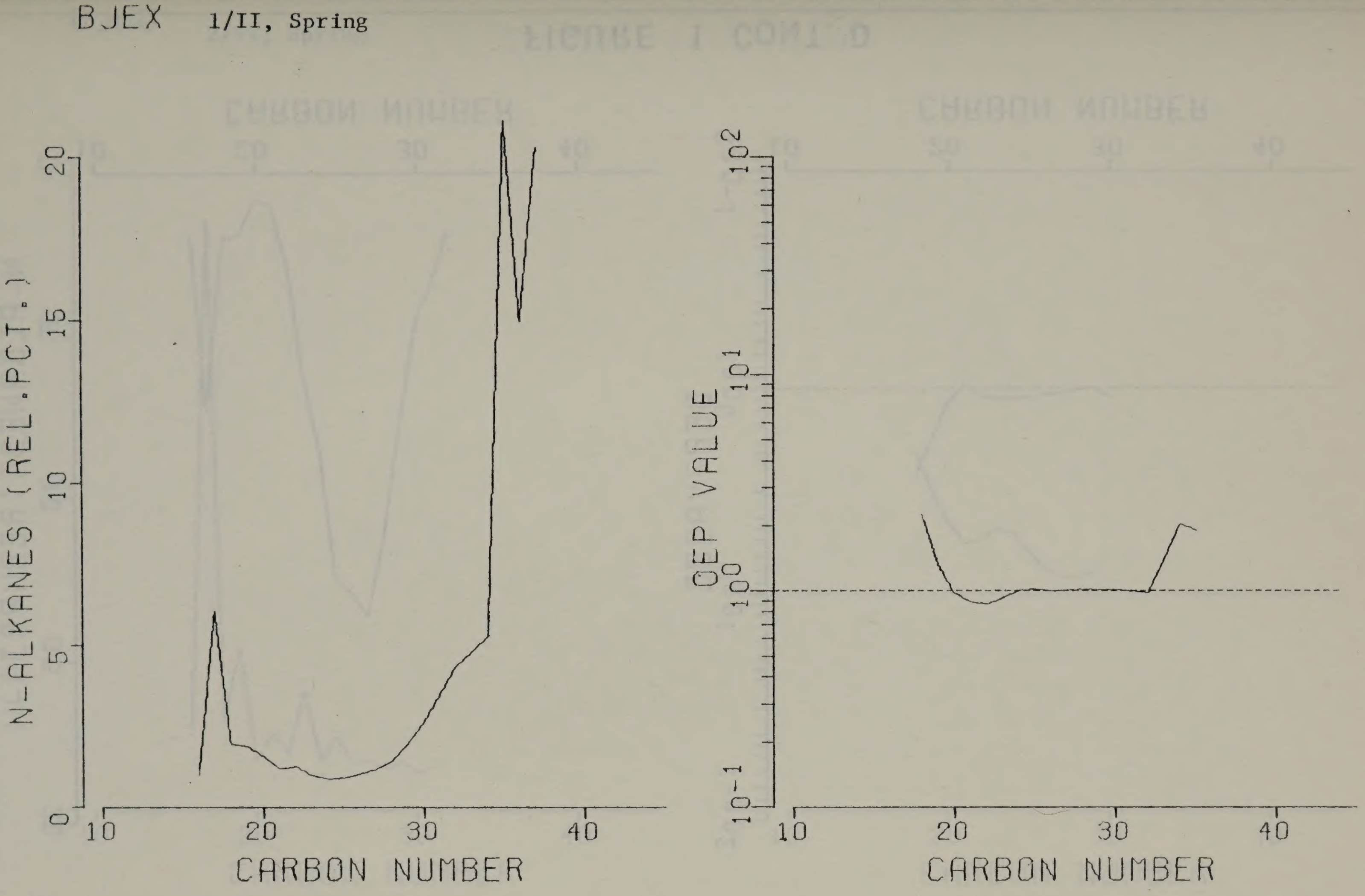


FIGURE 1 CONT.'D

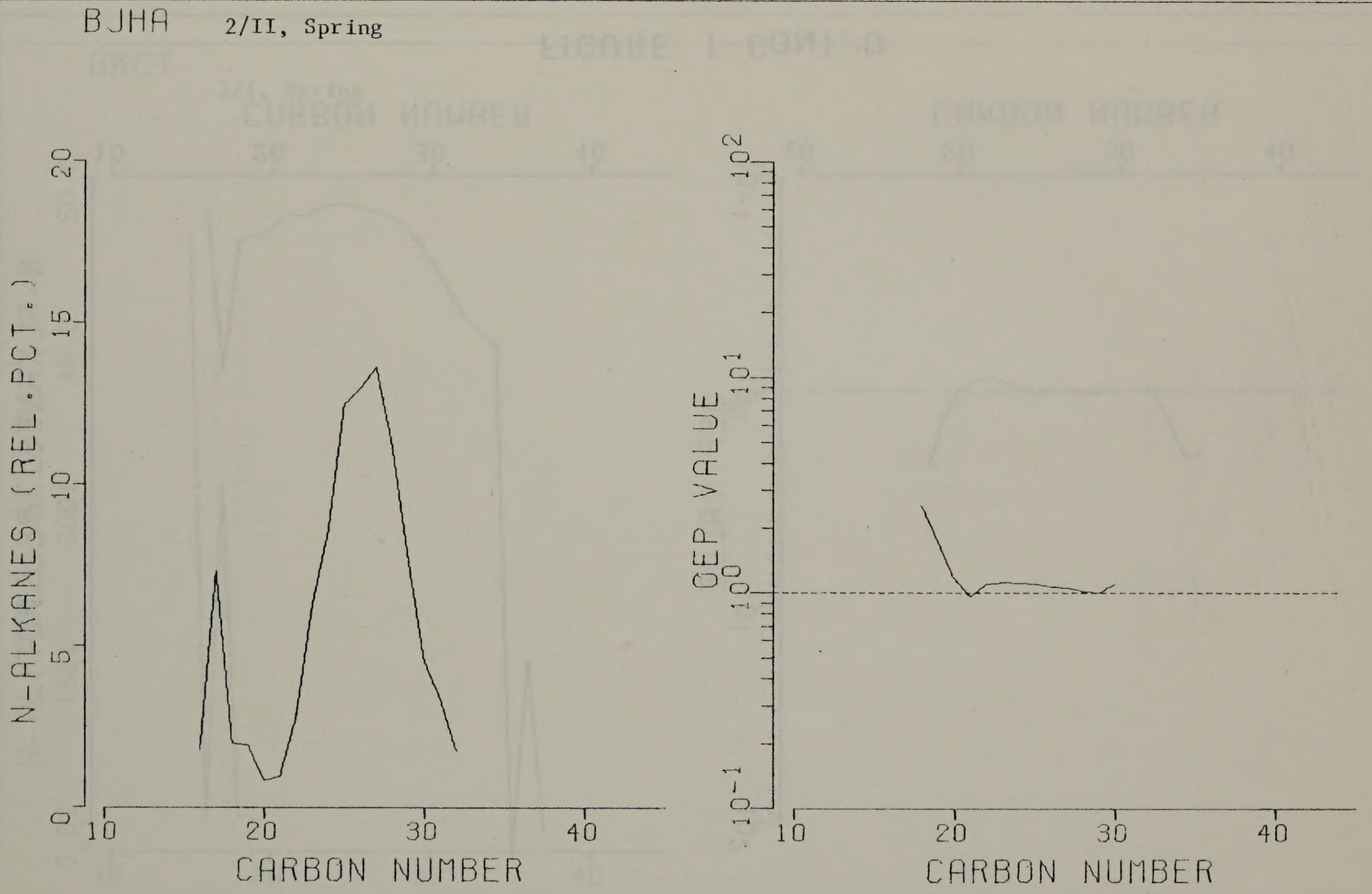


FIGURE 1 CONT.'D

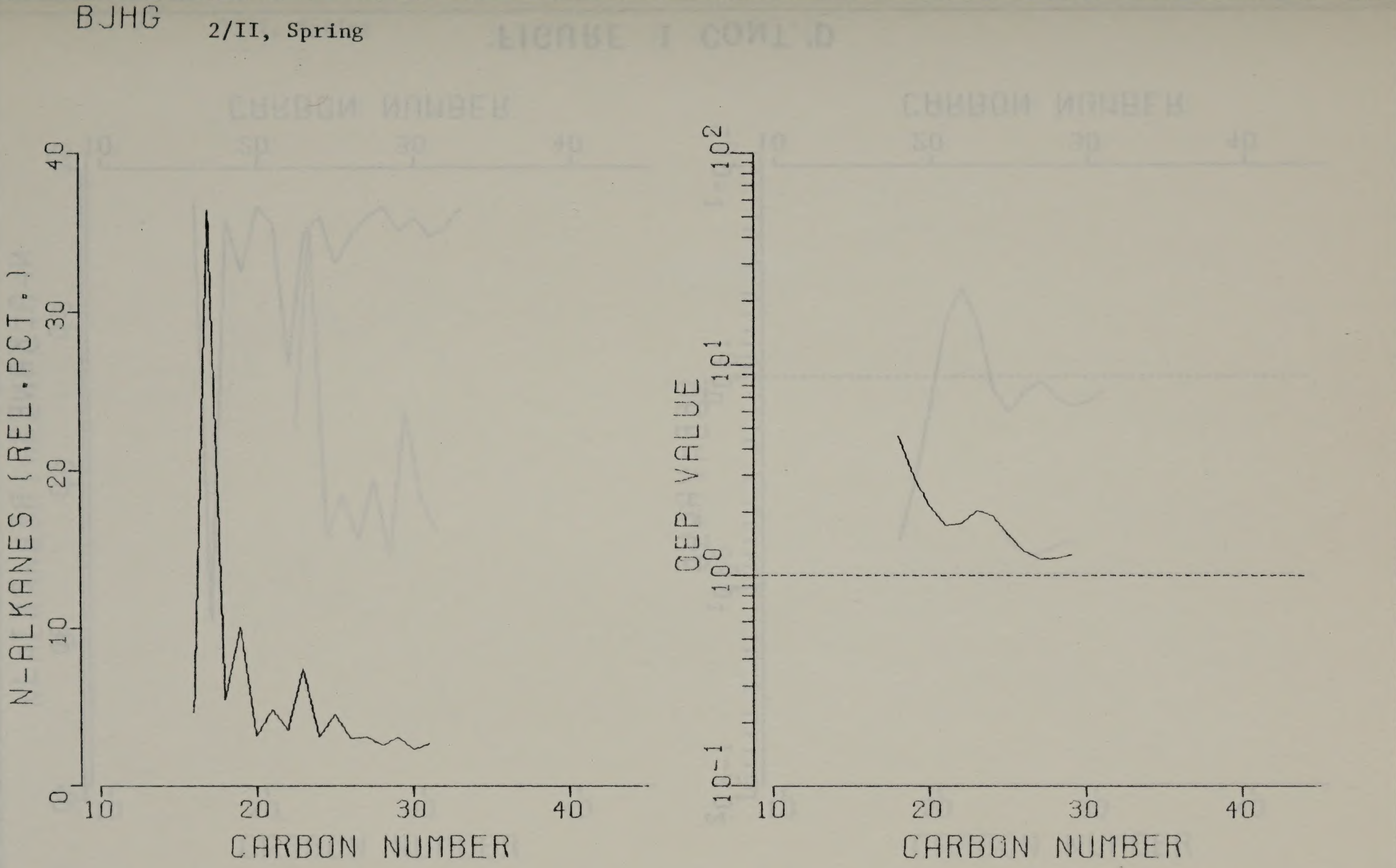


FIGURE 1 CONT.'D

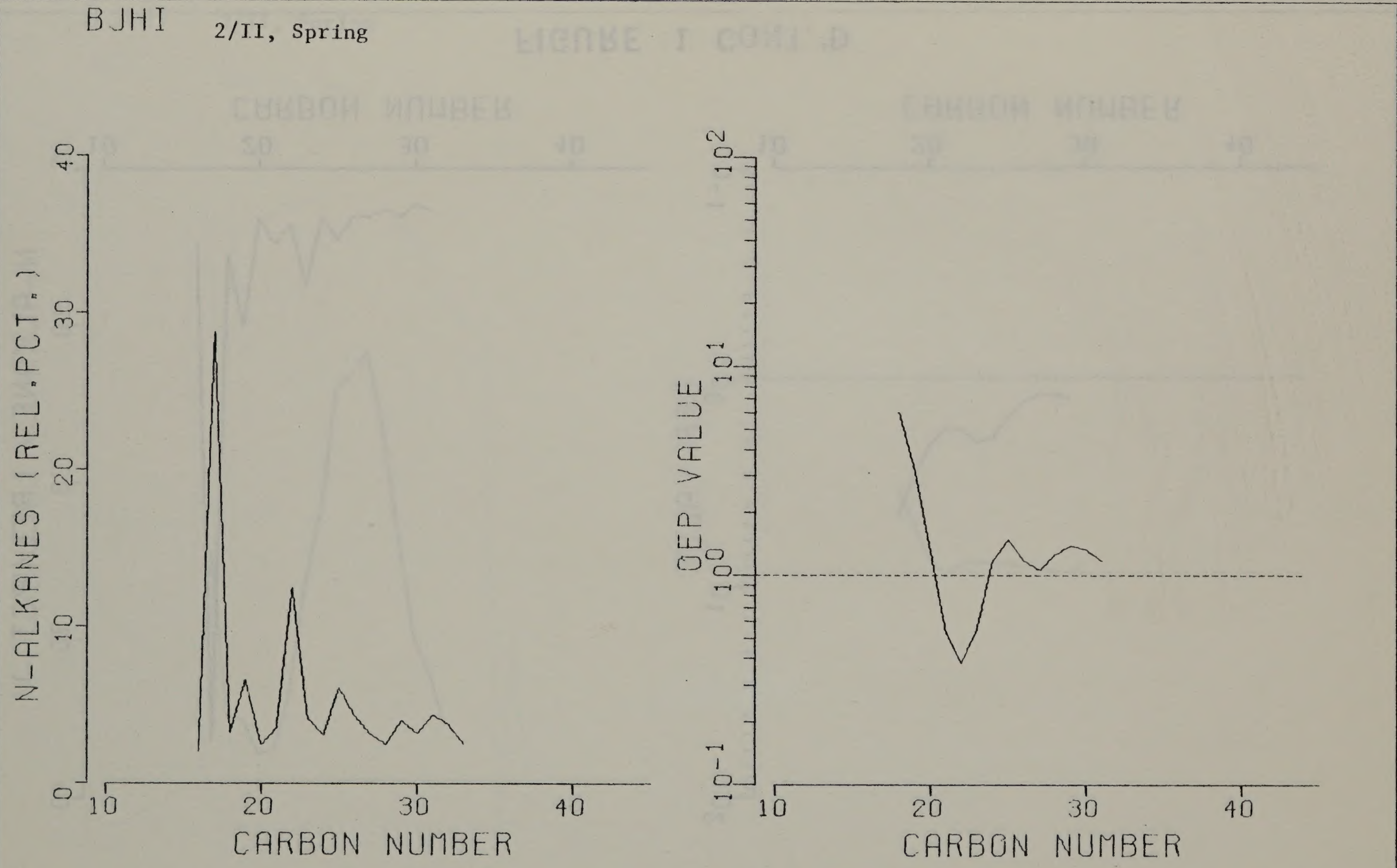


FIGURE 1 CONT.'D

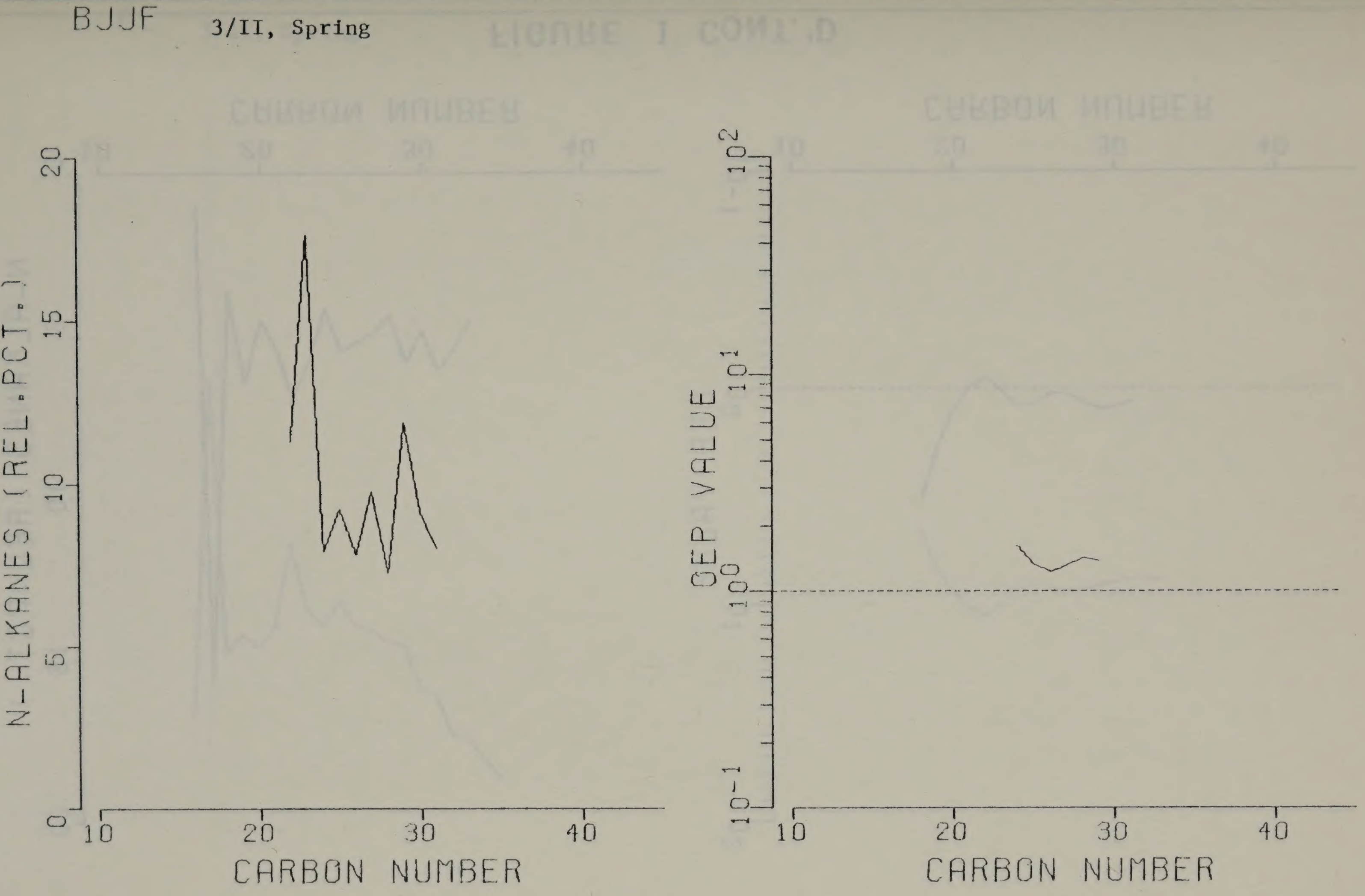


FIGURE 1 CONT.'D

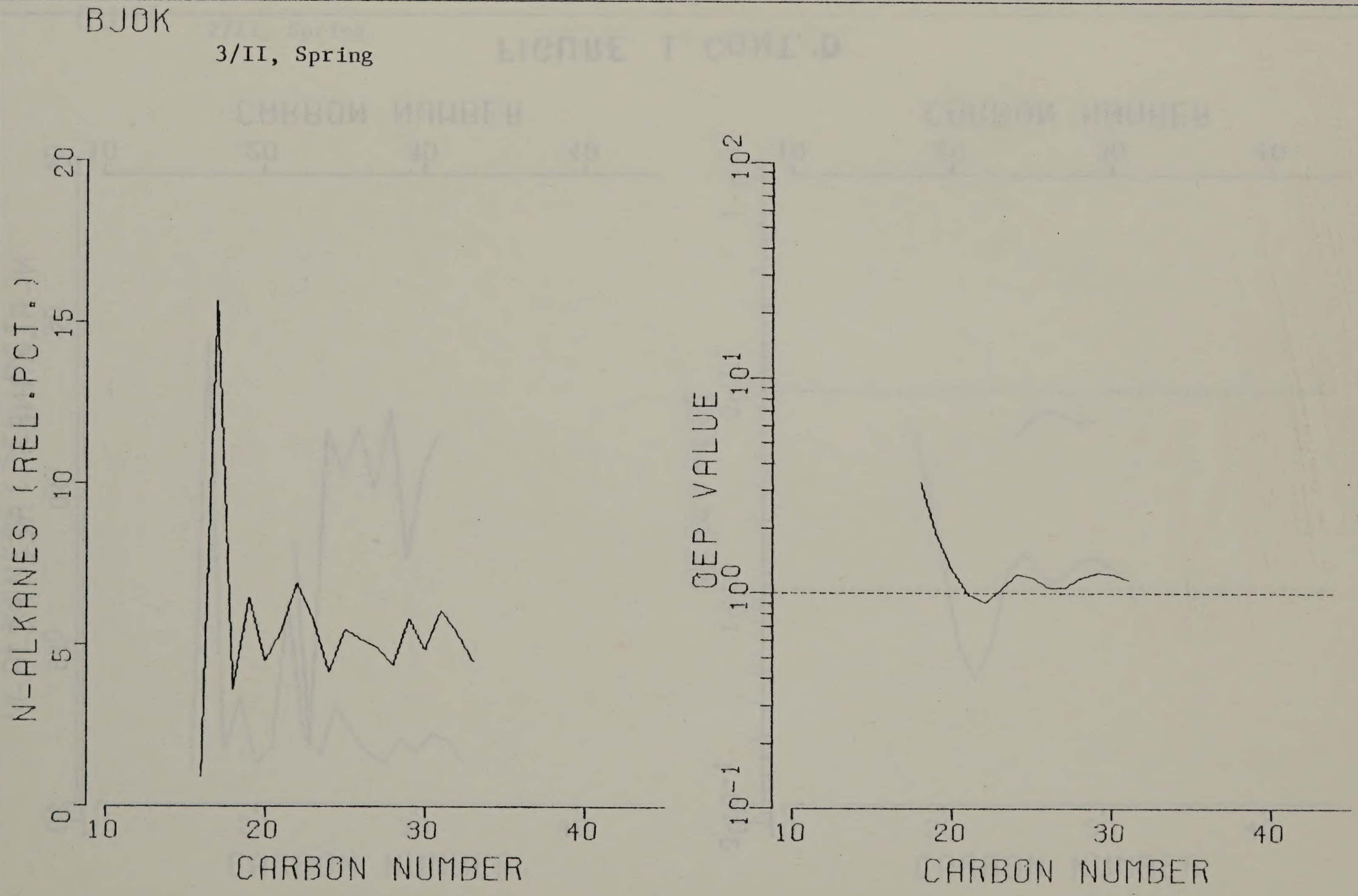


FIGURE 1 CONT.'D

BJOL 3/II, Spring

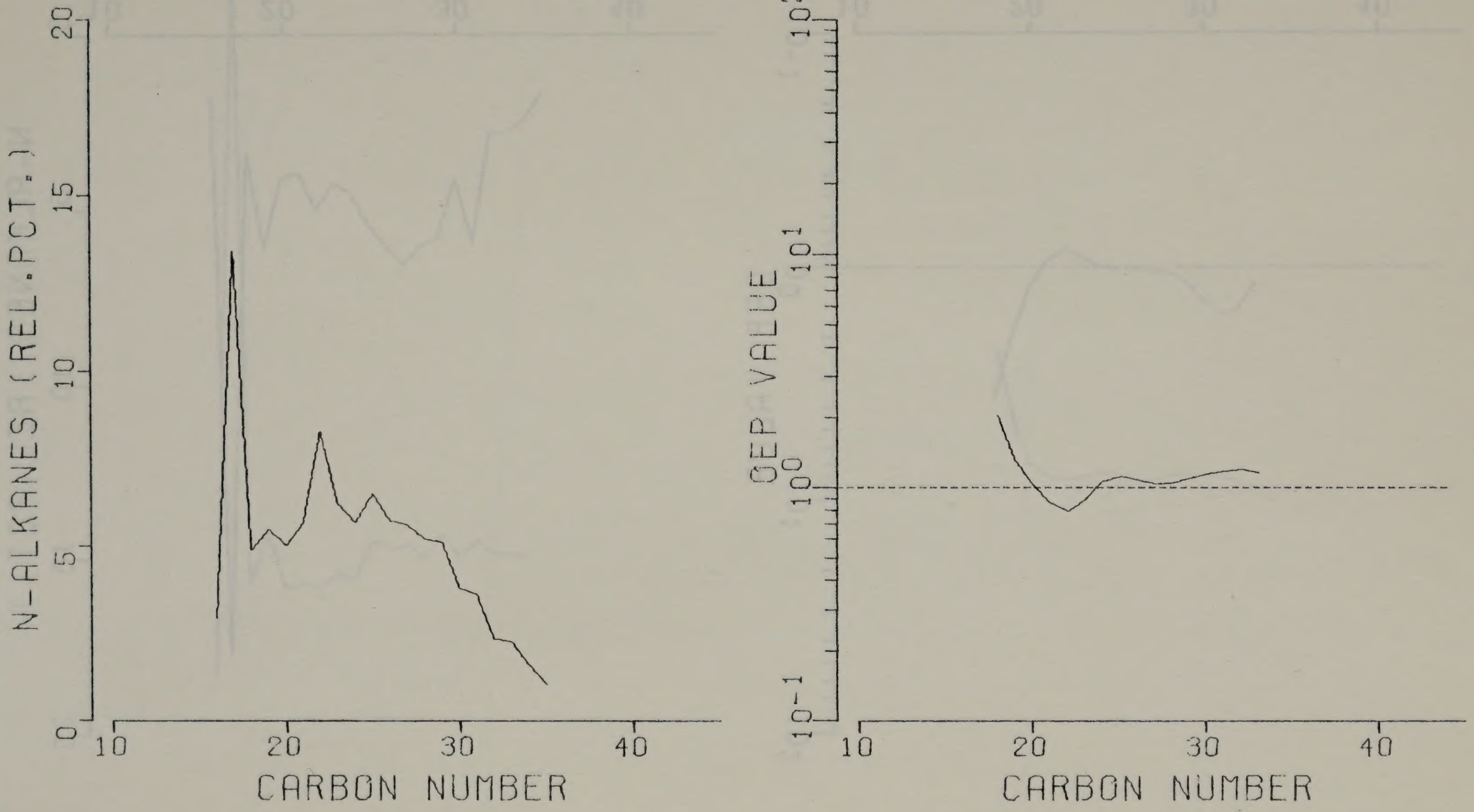


FIGURE 1 CONT.'D

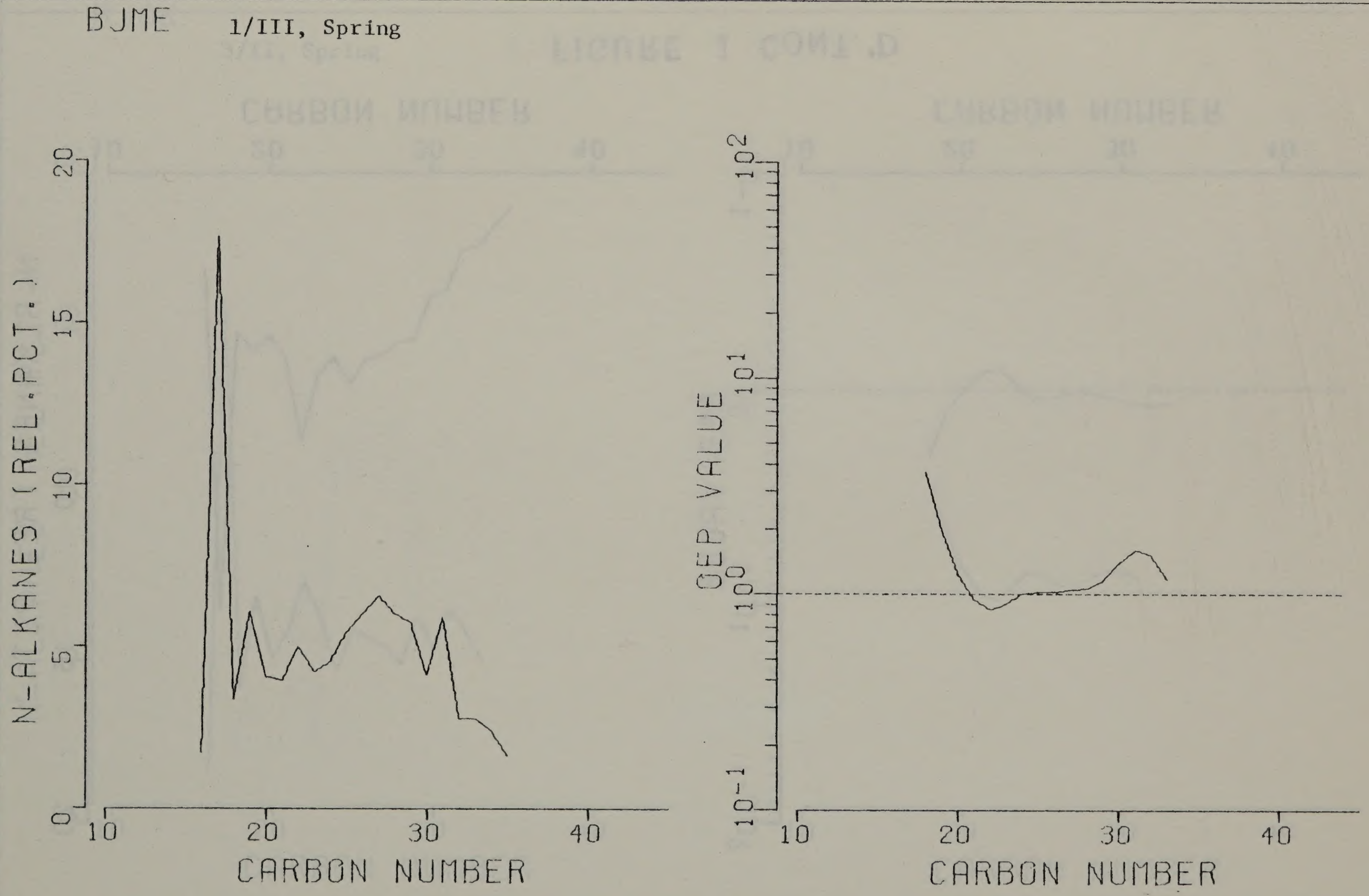


FIGURE 1 CONT.'D

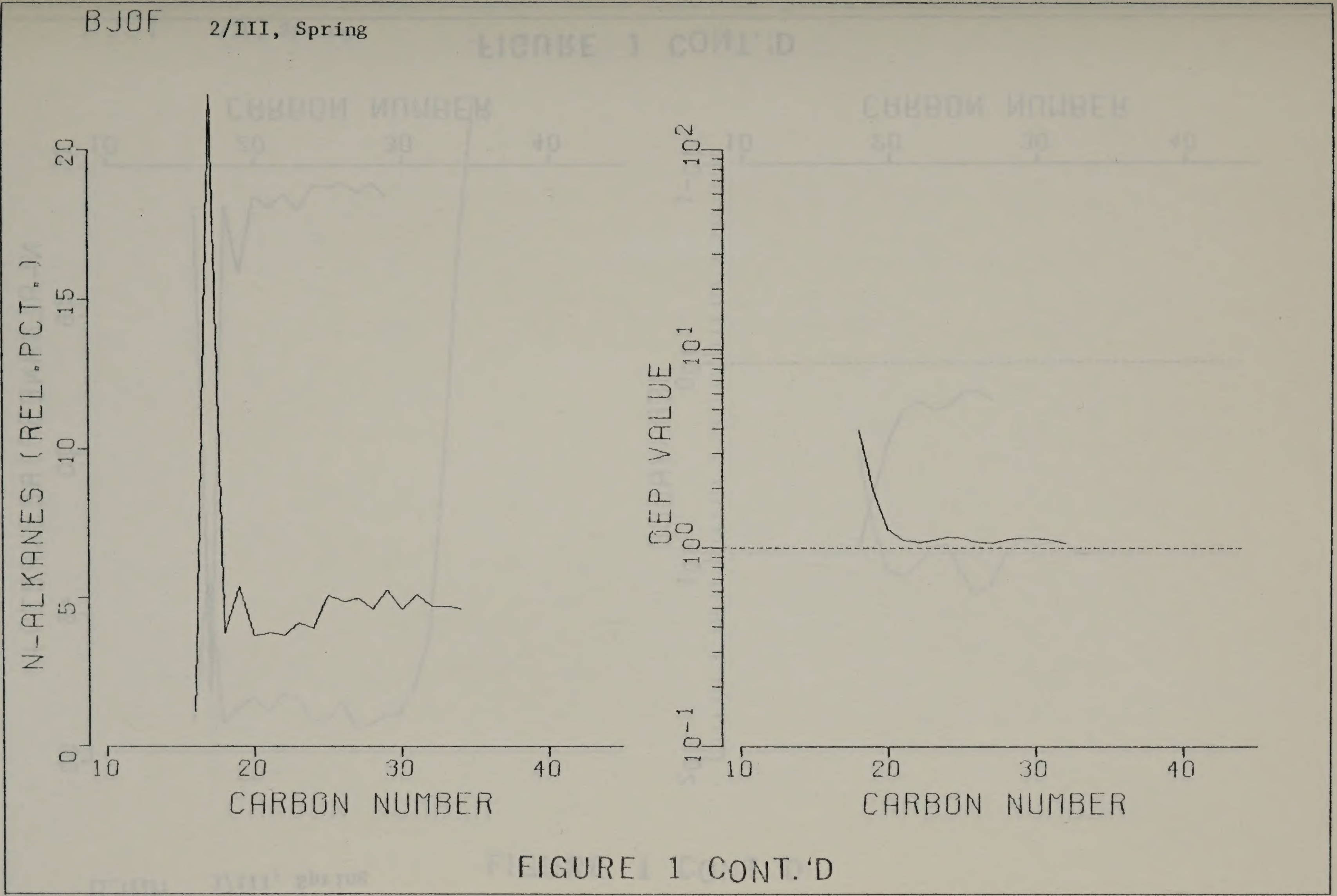


FIGURE 1 CONT.'D

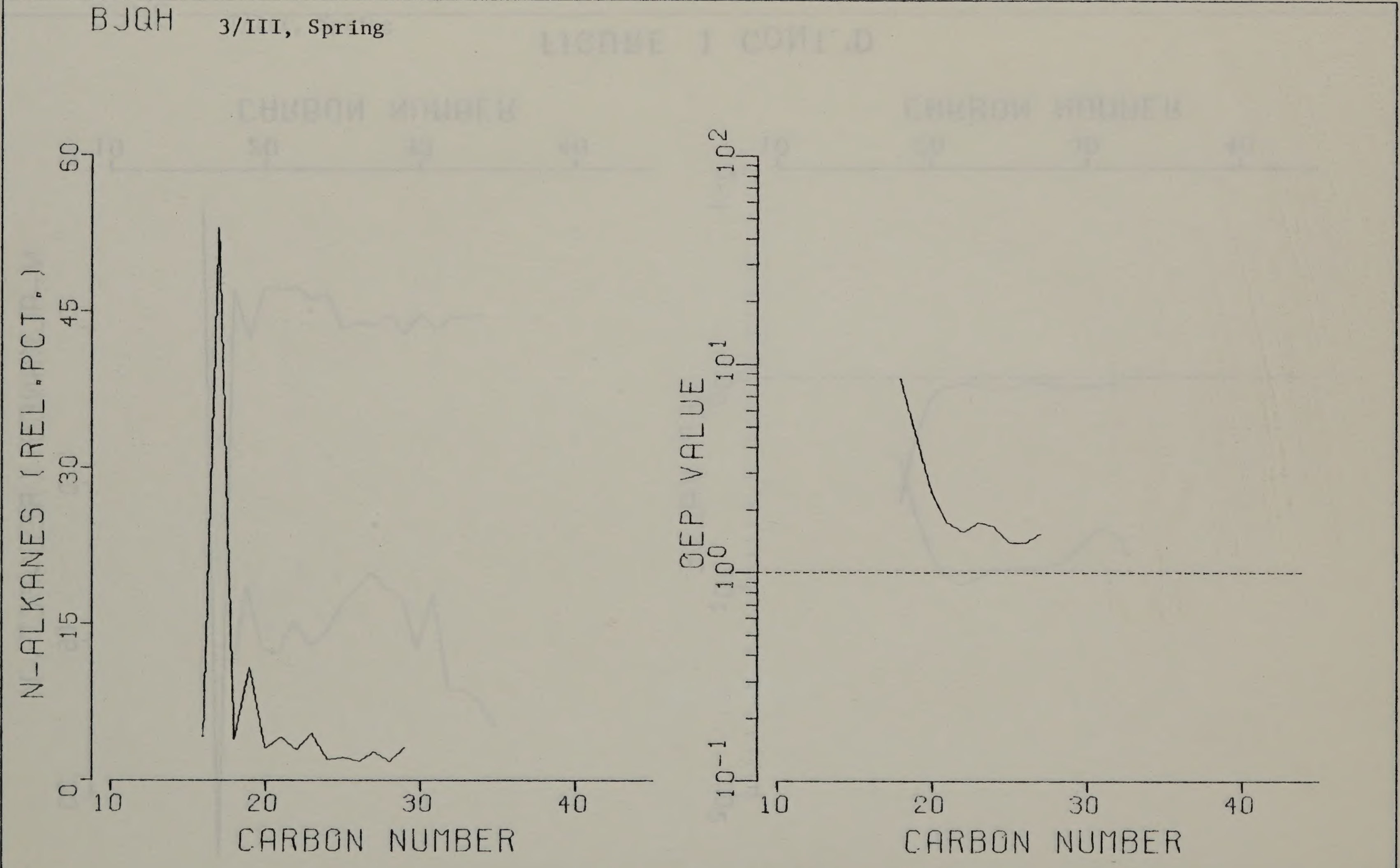

BJQH 3/III, Spring

FIGURE 1 CONT.'D

BJSI 1/IV, Spring

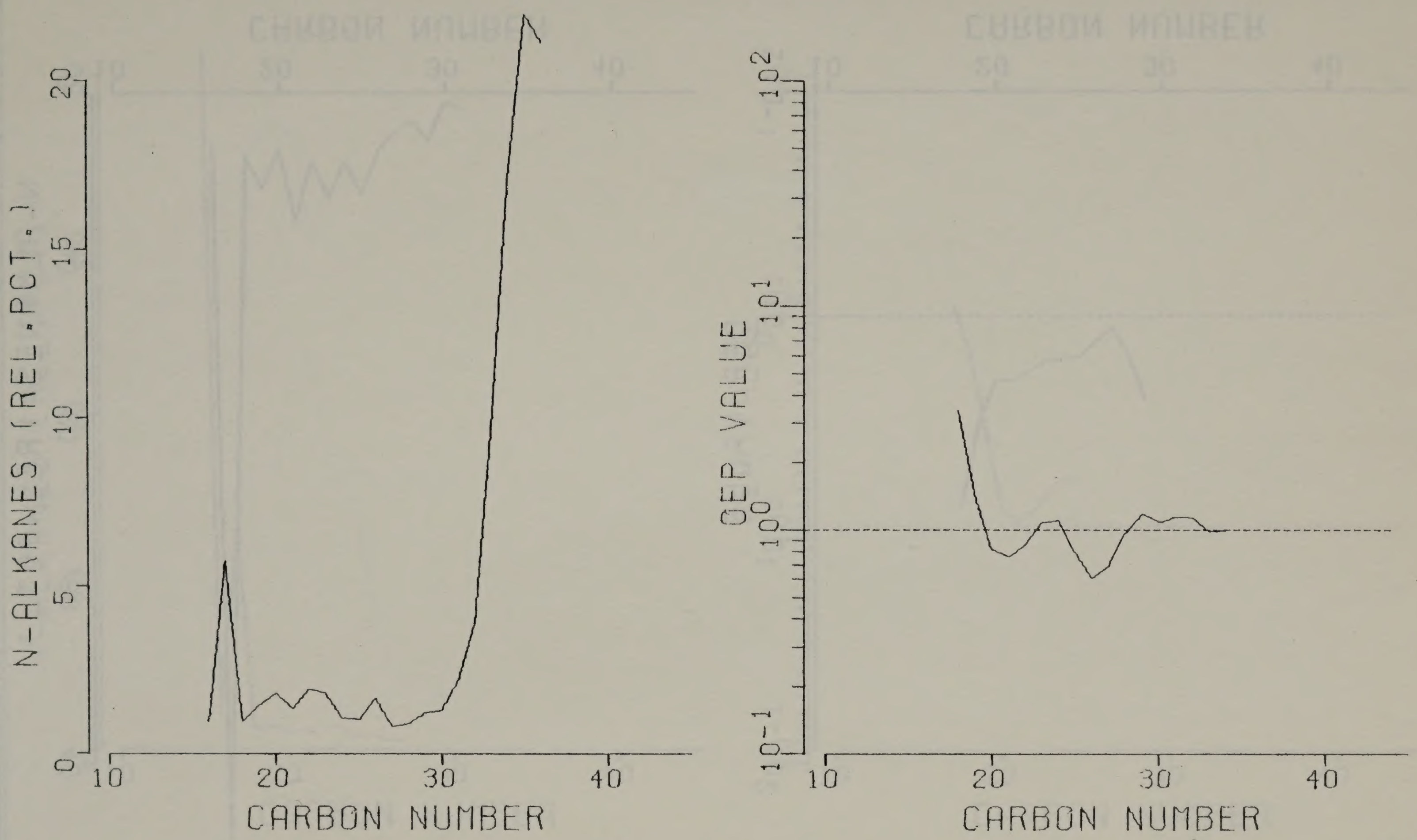


FIGURE 1 CONT.'D

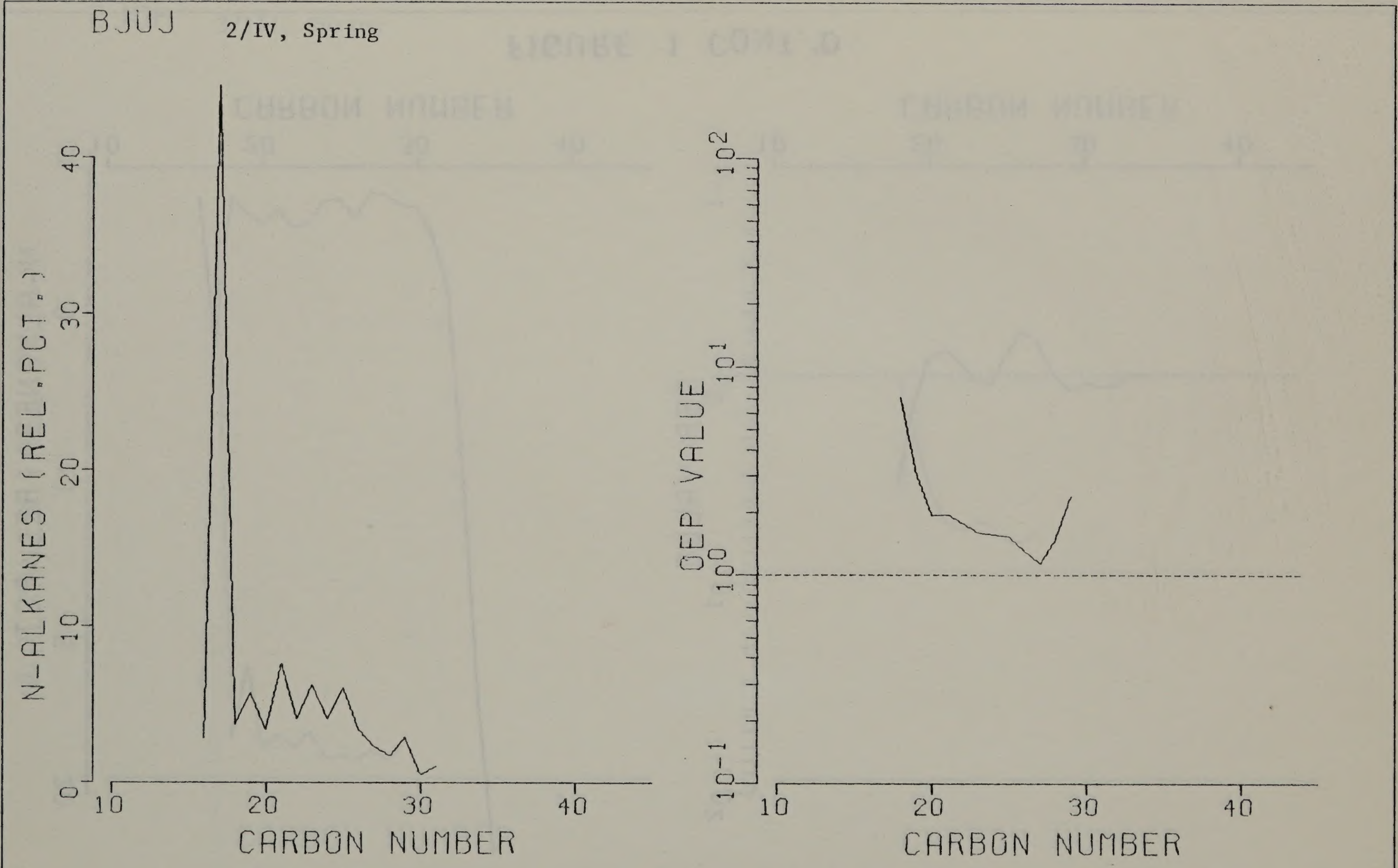


FIGURE 1 CONT.'D

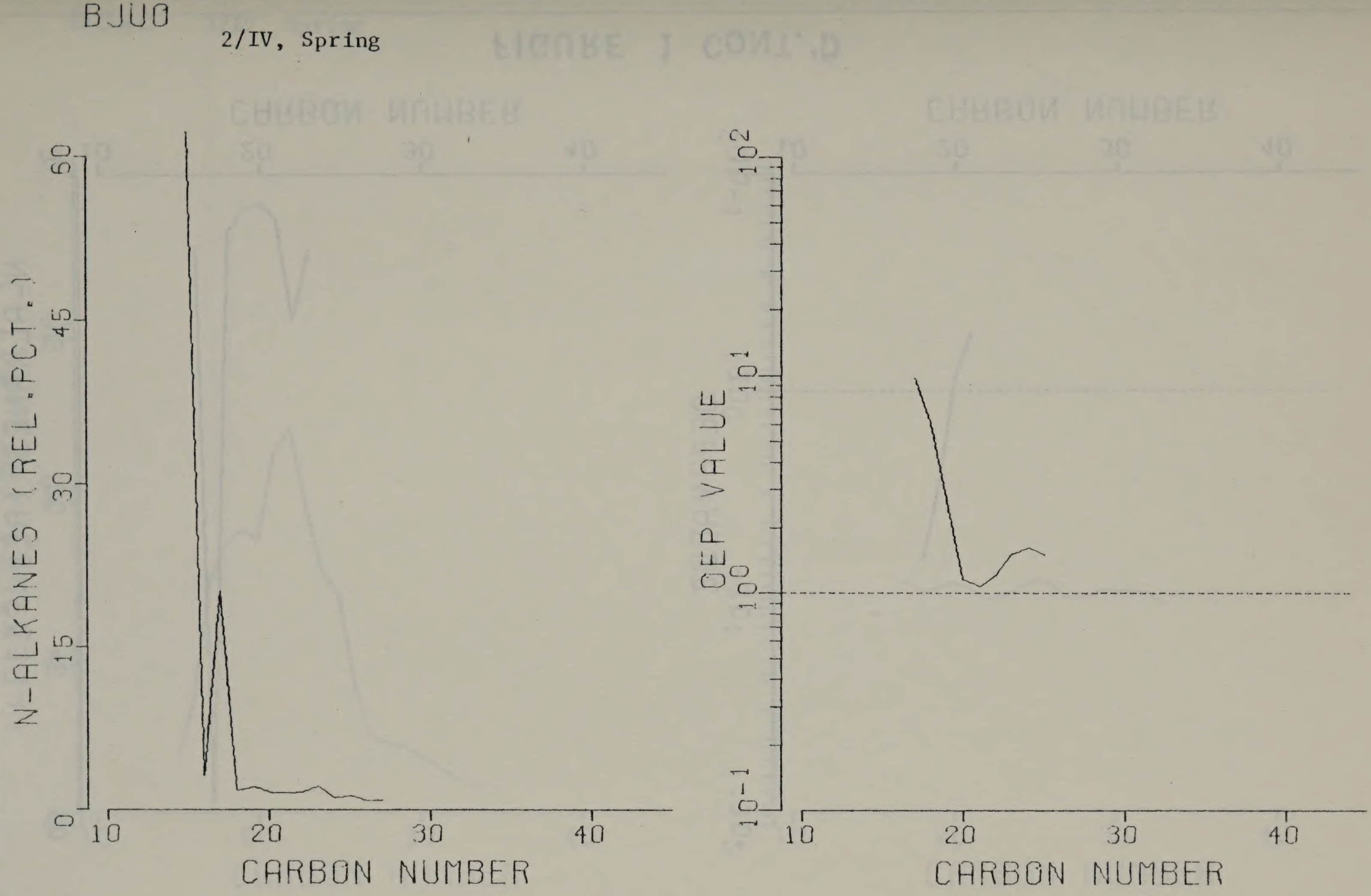


FIGURE 1 CONT.'D

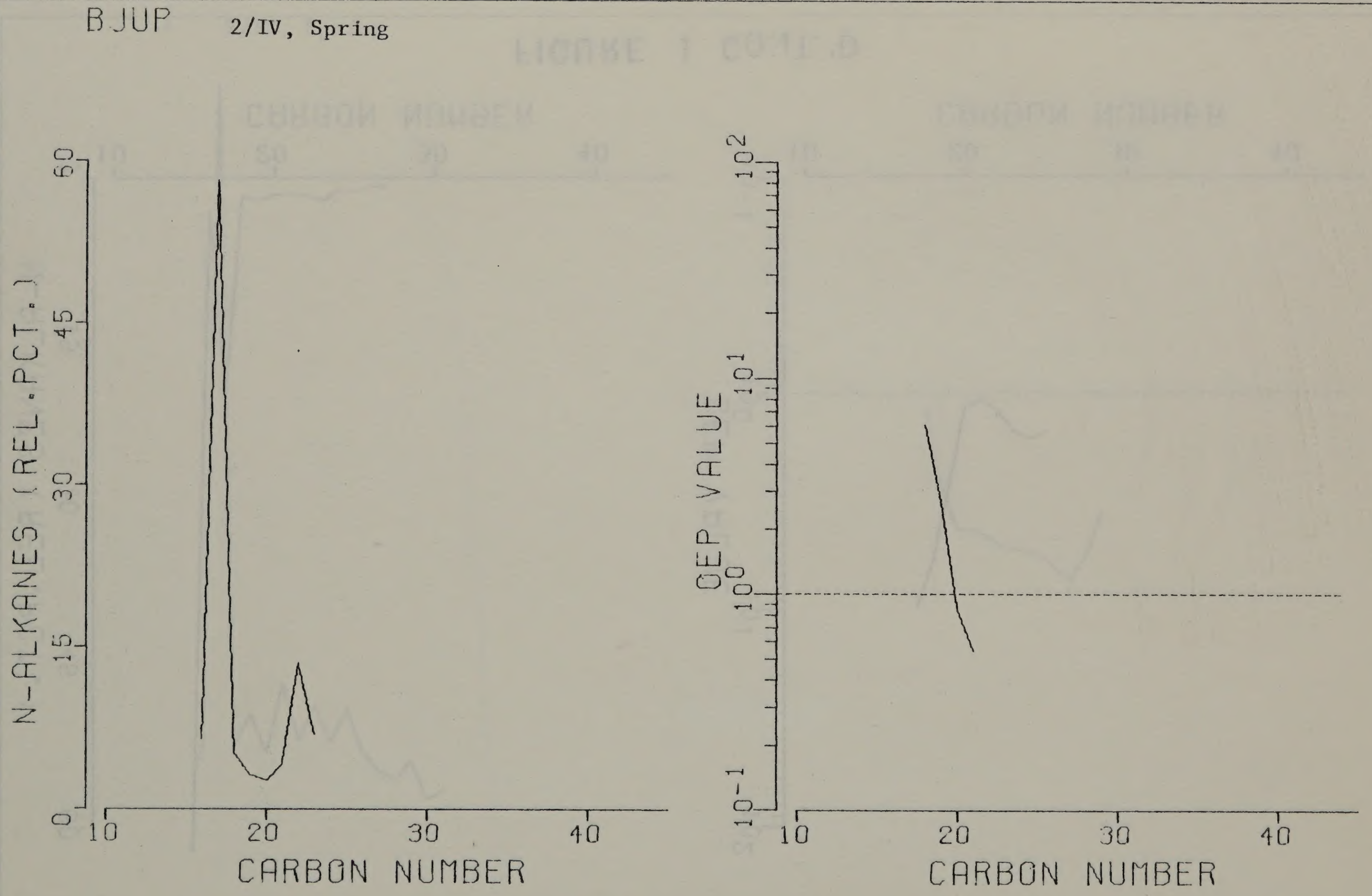


FIGURE 1 CONT.'D

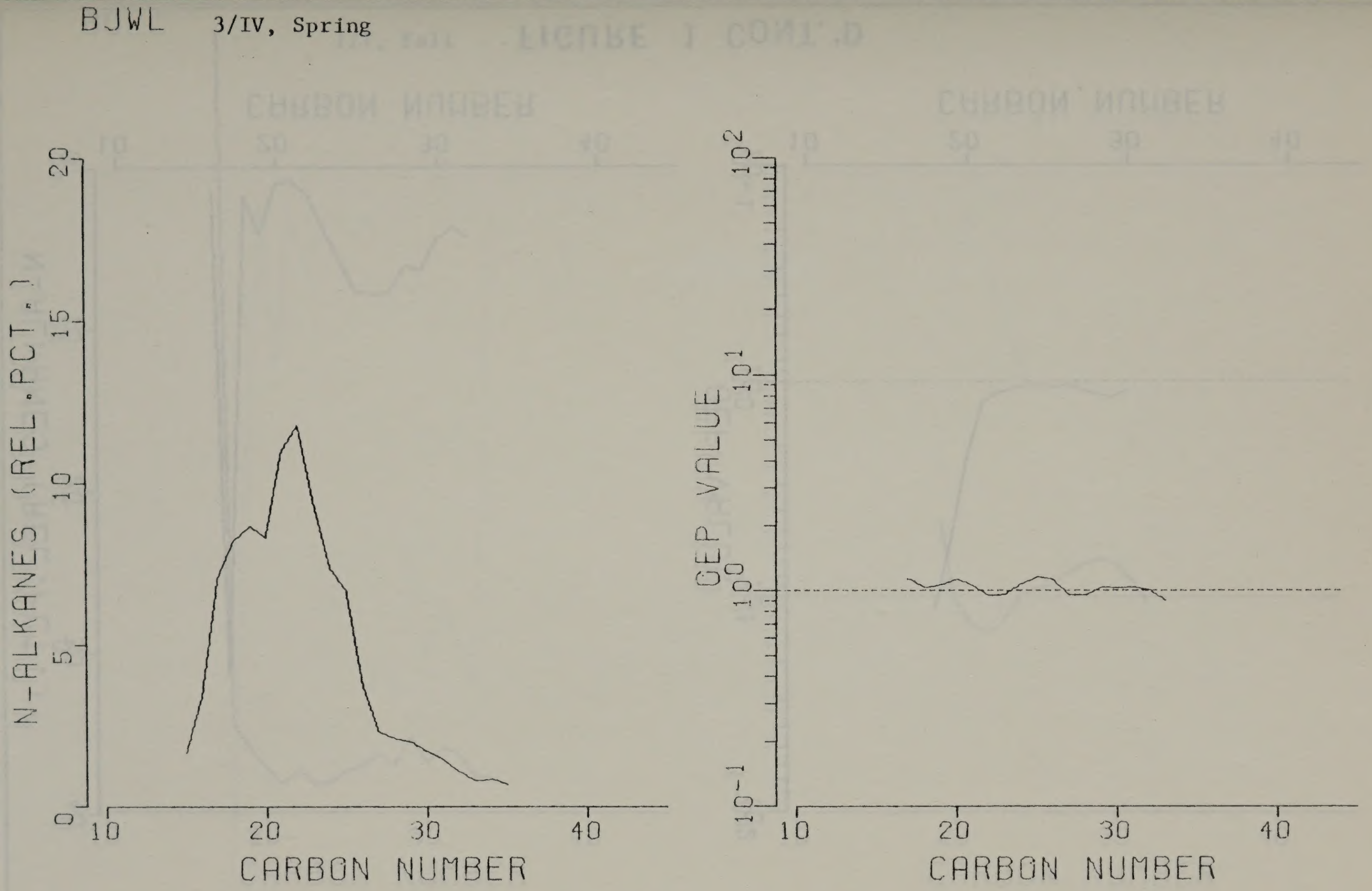


FIGURE 1 CONT.'D

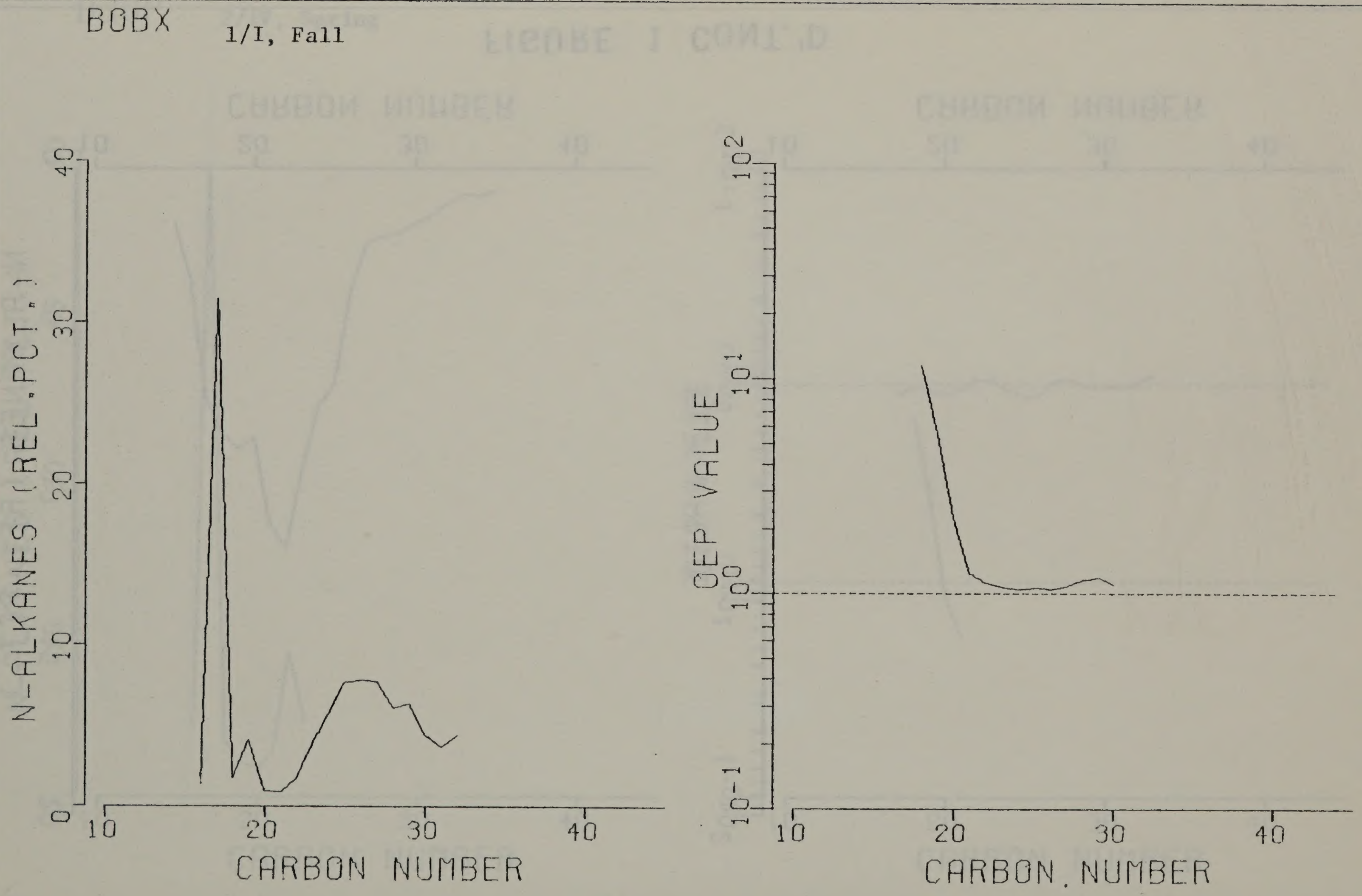


FIGURE 1 CONT.'D

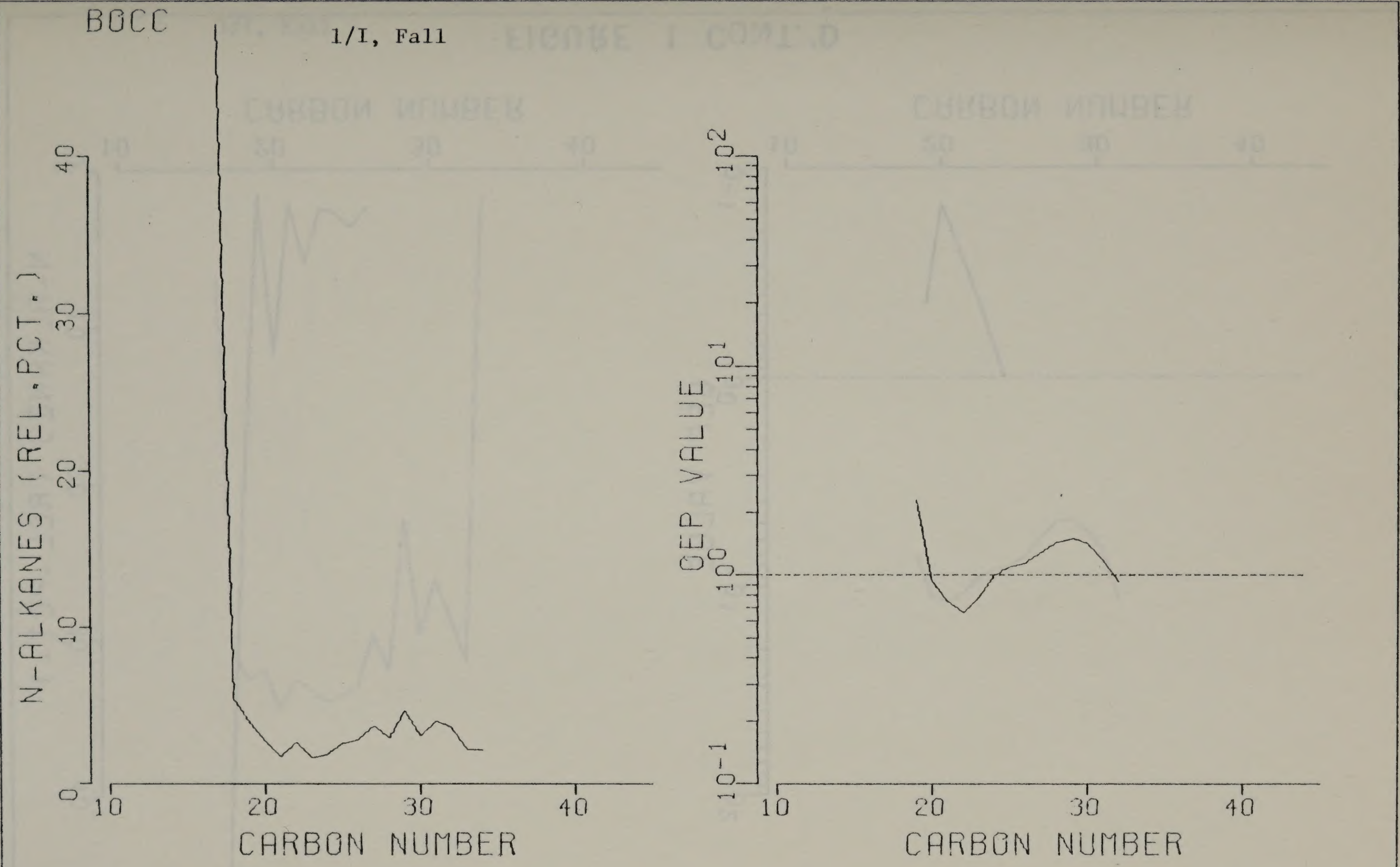


FIGURE 1 CONT.'D

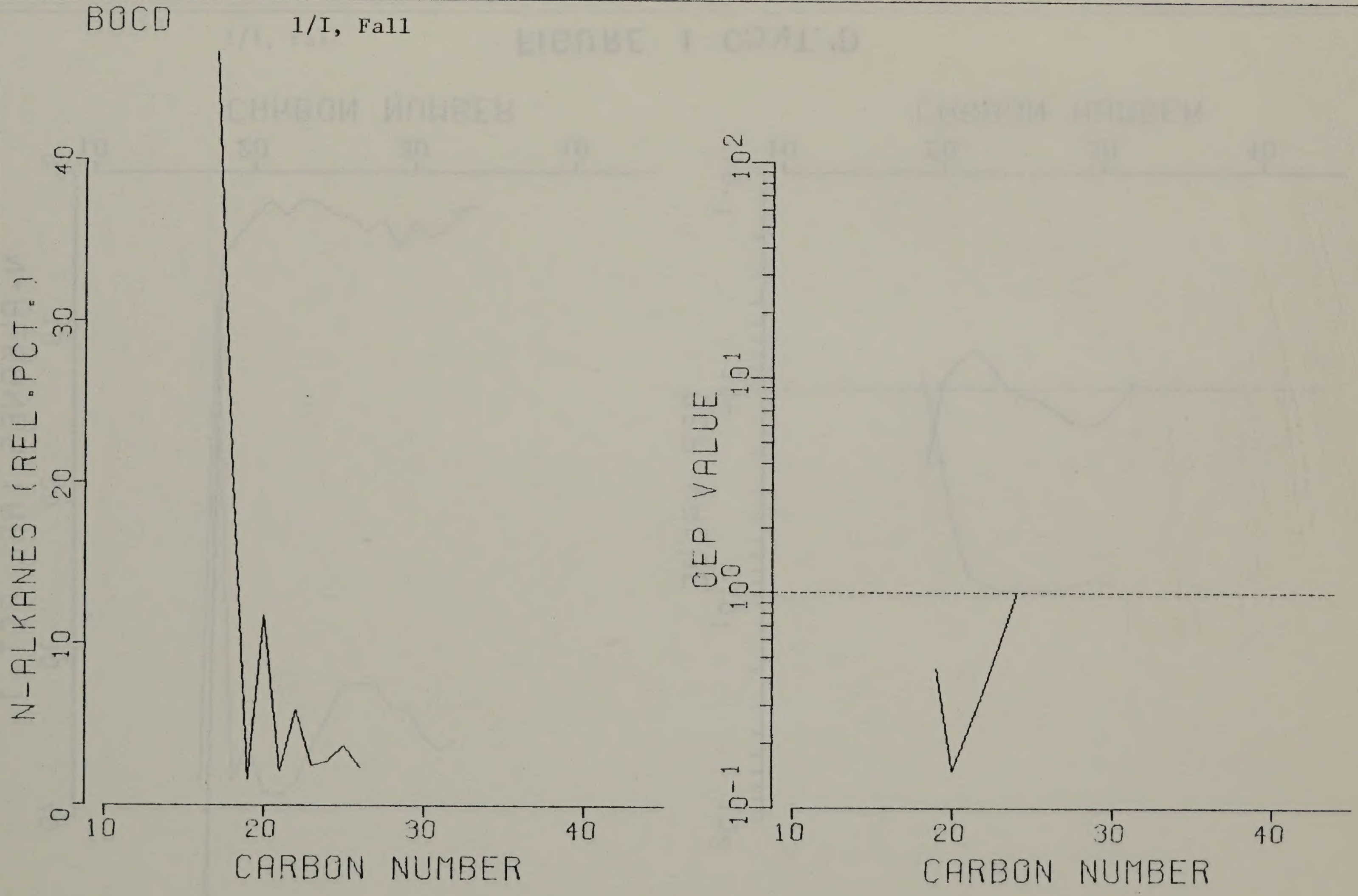


FIGURE 1 CONT.'D

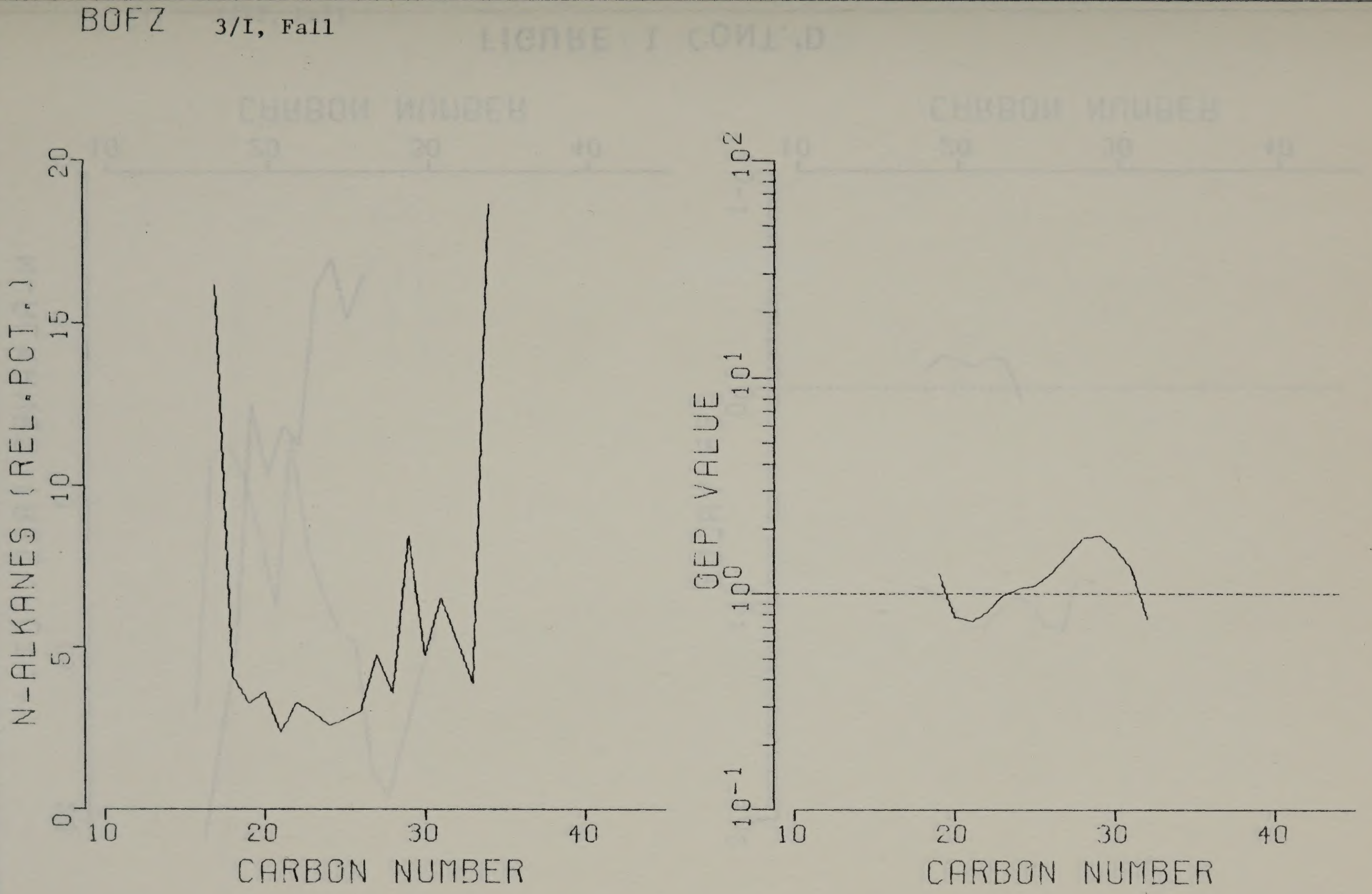
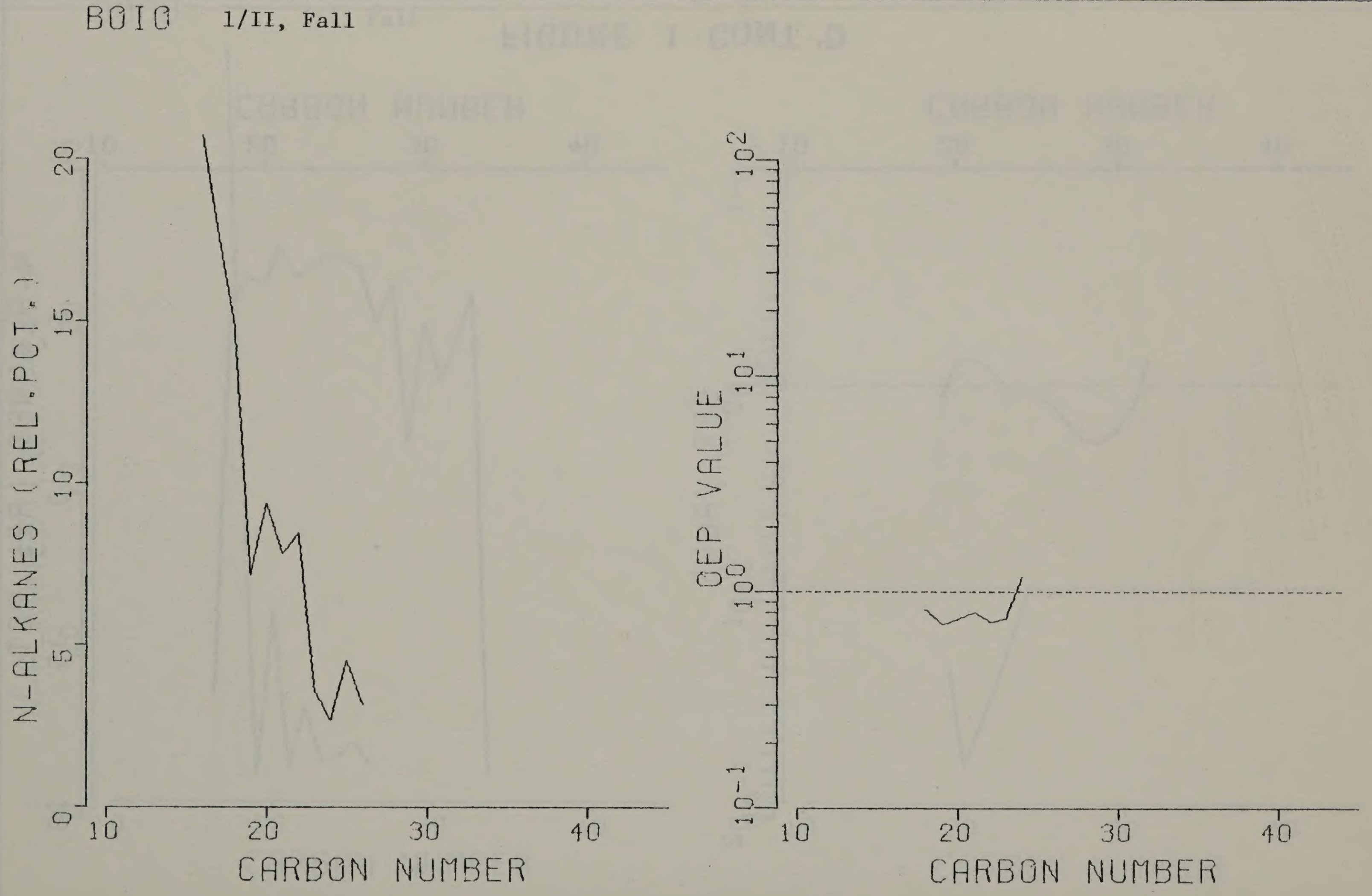


FIGURE 1 CONT.'D



BOIO 1/II, Fall

FIGURE 1 CONT.'D

BOIU 1/II, Fall

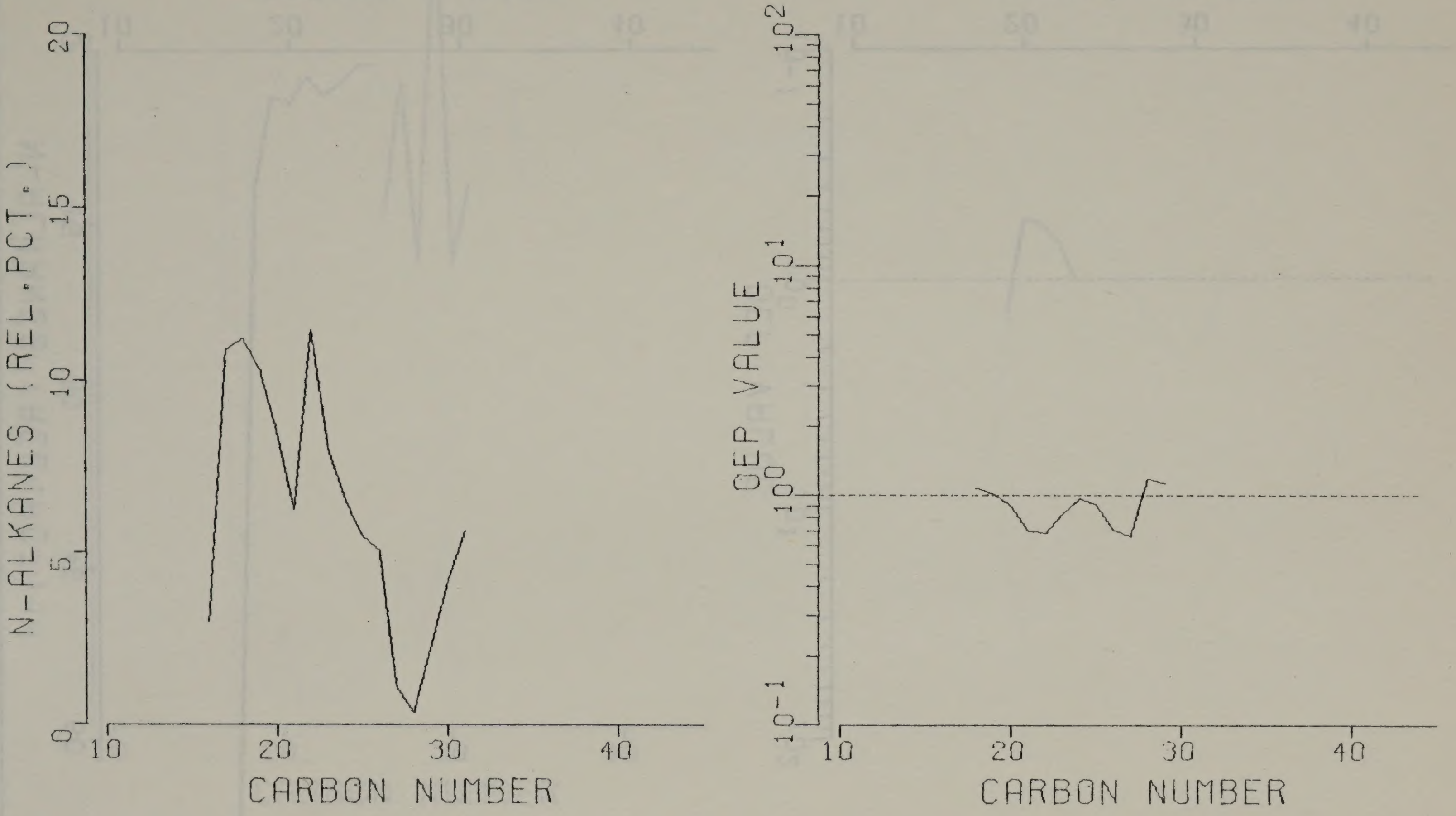


FIGURE 1 CONT.'D

BOIV 1/II, Fall

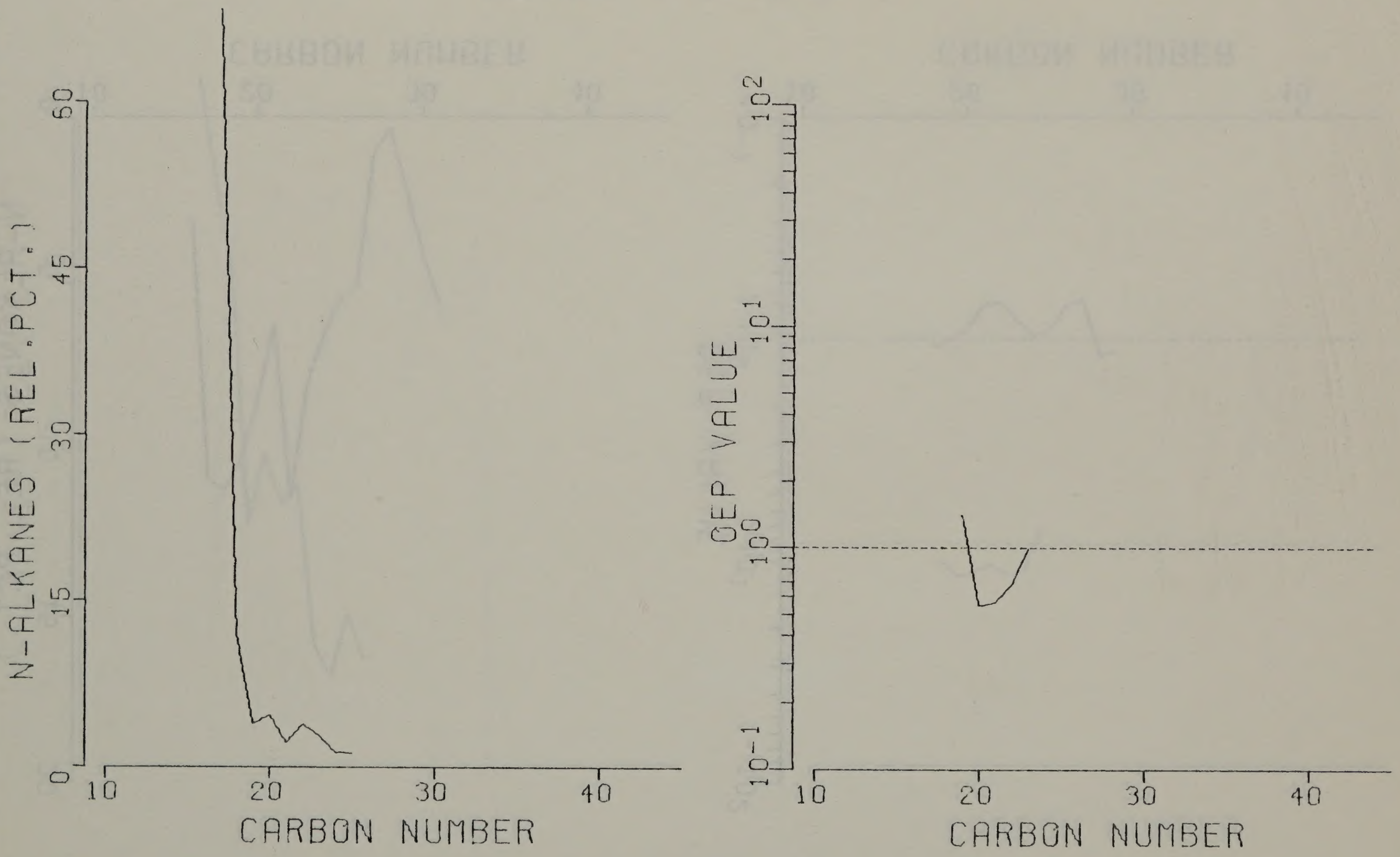


FIGURE 1 CONT.'D

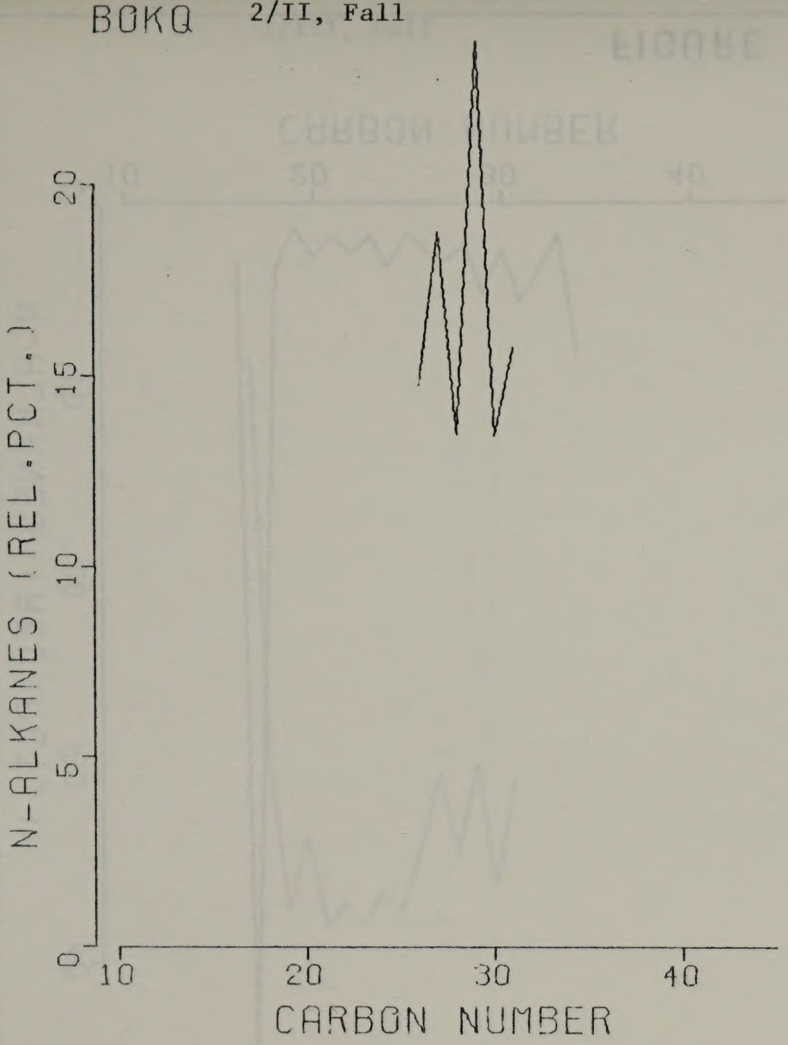


FIGURE 1 CONT.'D

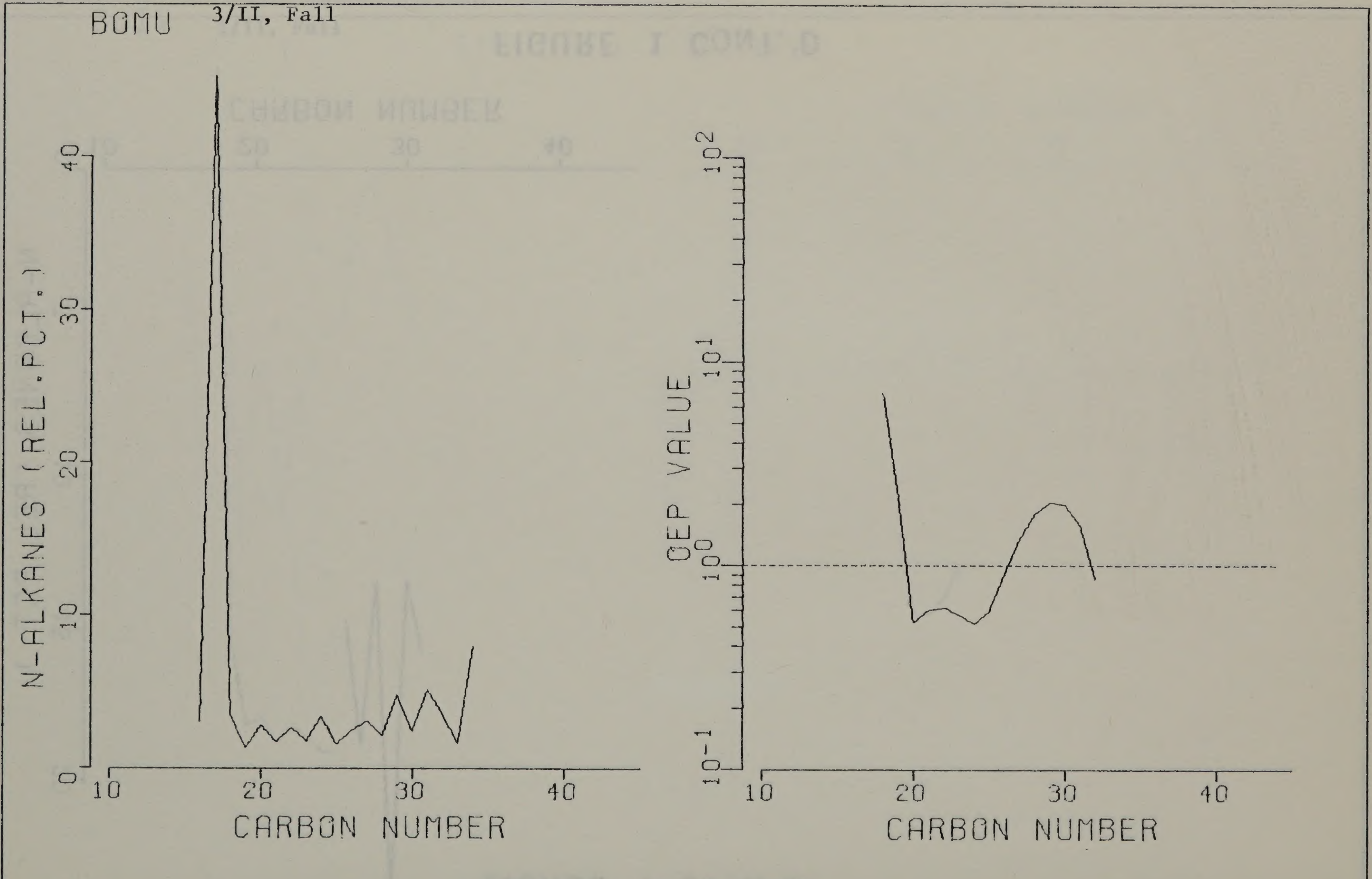


FIGURE 1 CONT.'D

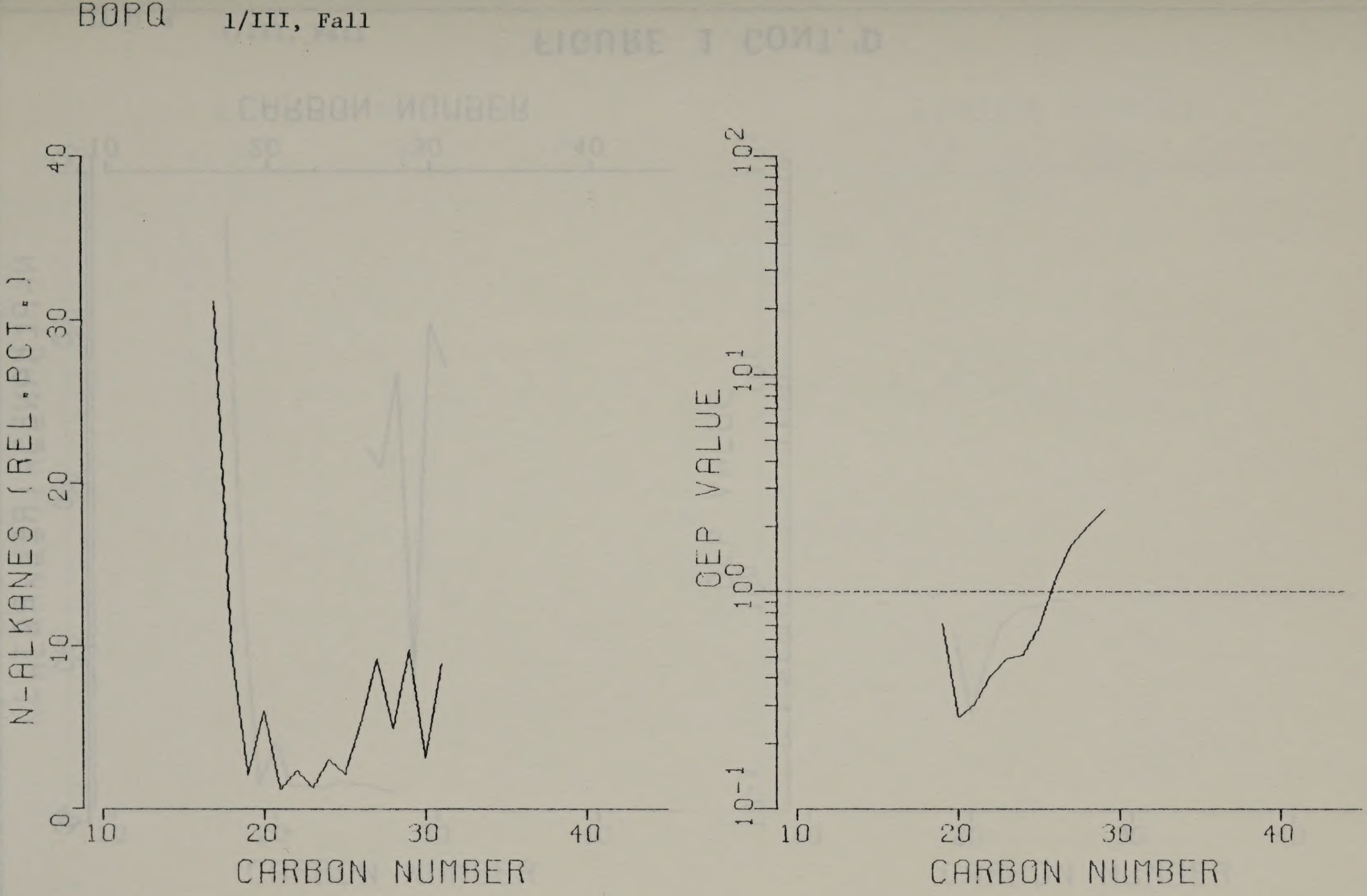


FIGURE 1 CONT.'D

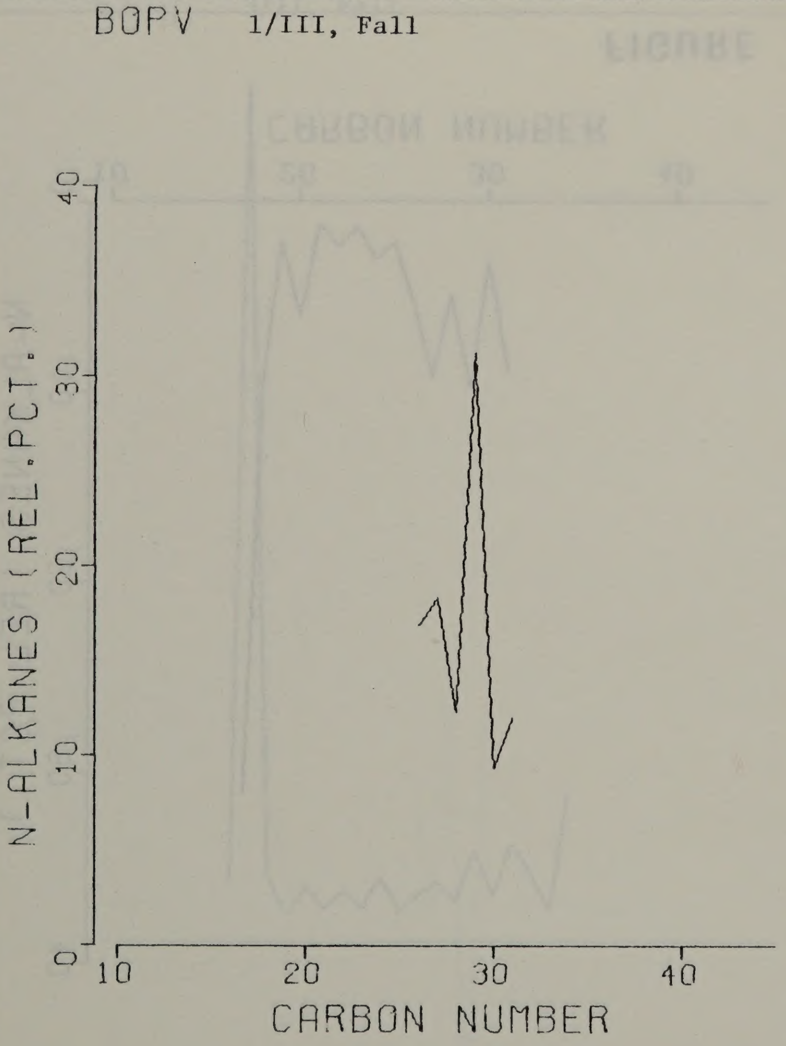
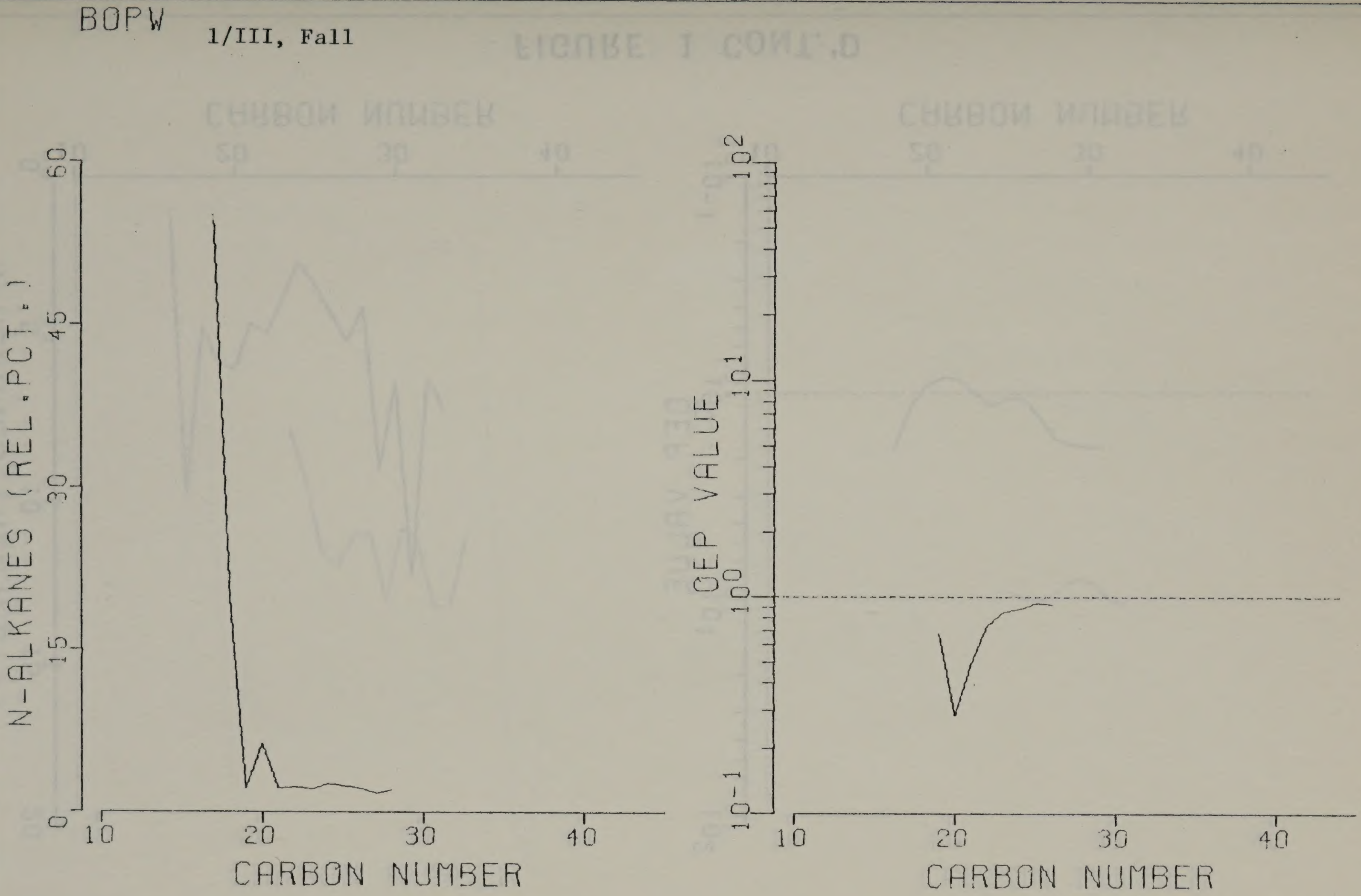


FIGURE 1 CONT.'D



1/III, Fall

FIGURE 1 CONT.'D

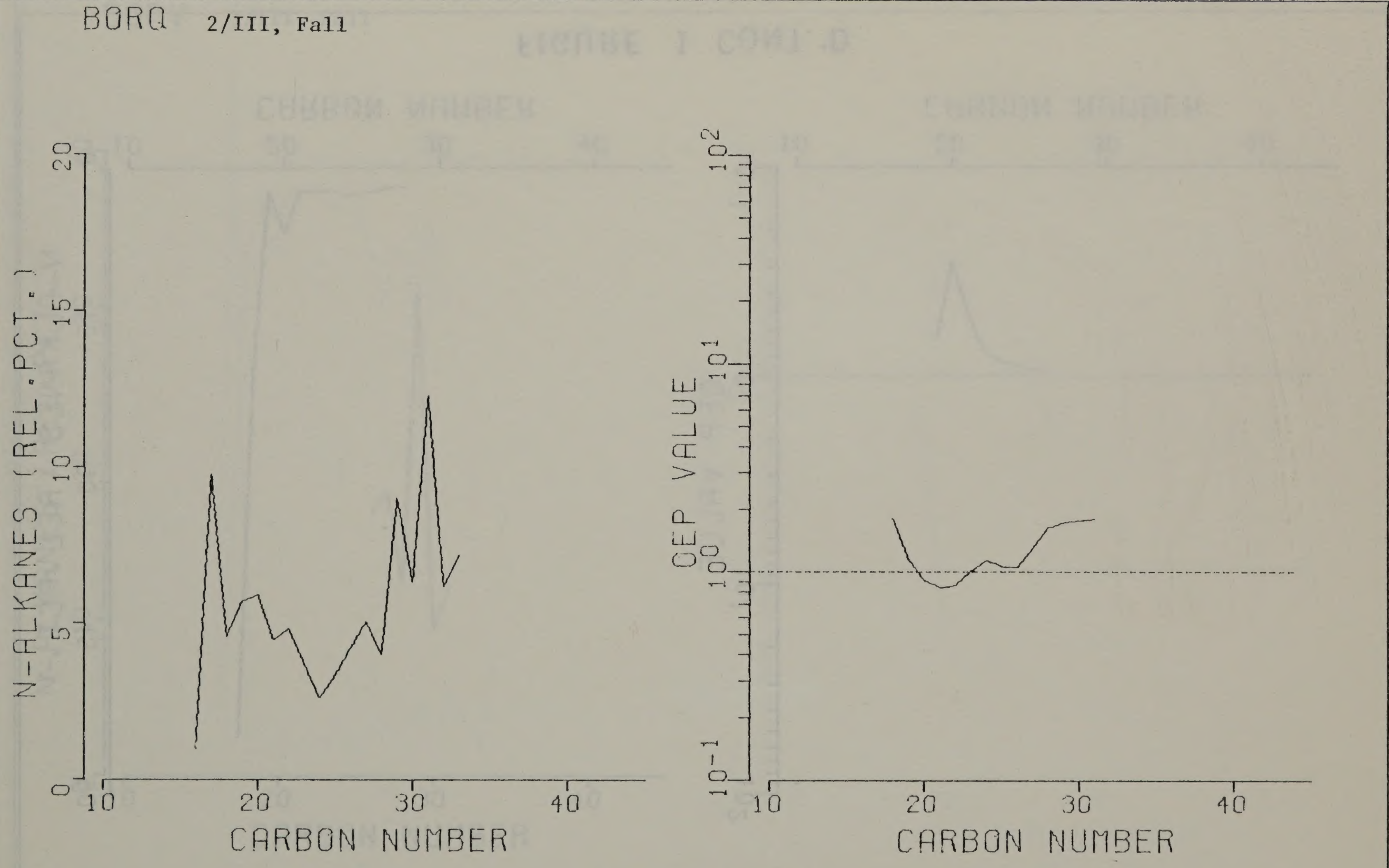


FIGURE 1 CONT.'D

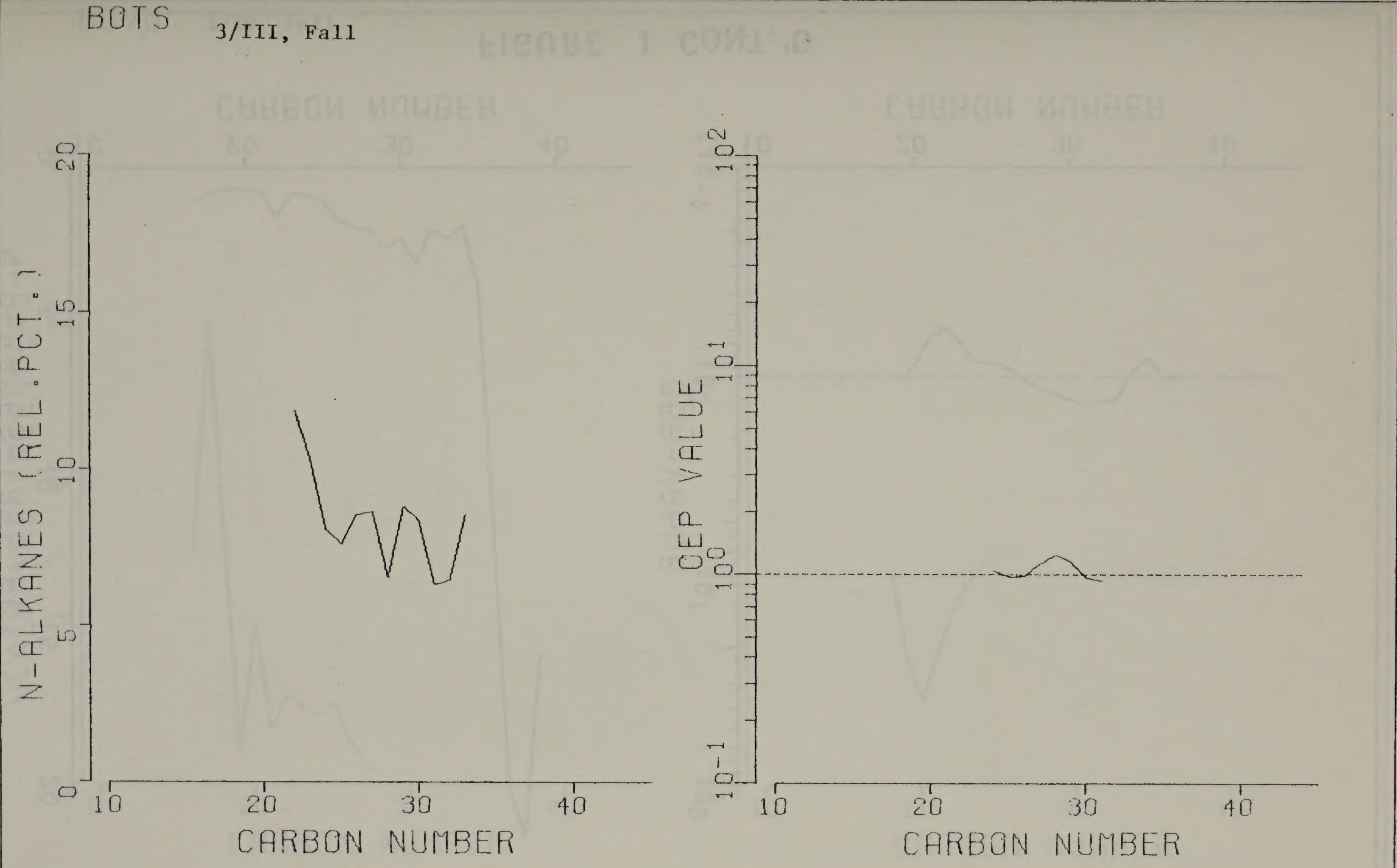


FIGURE 1 CONT.'D

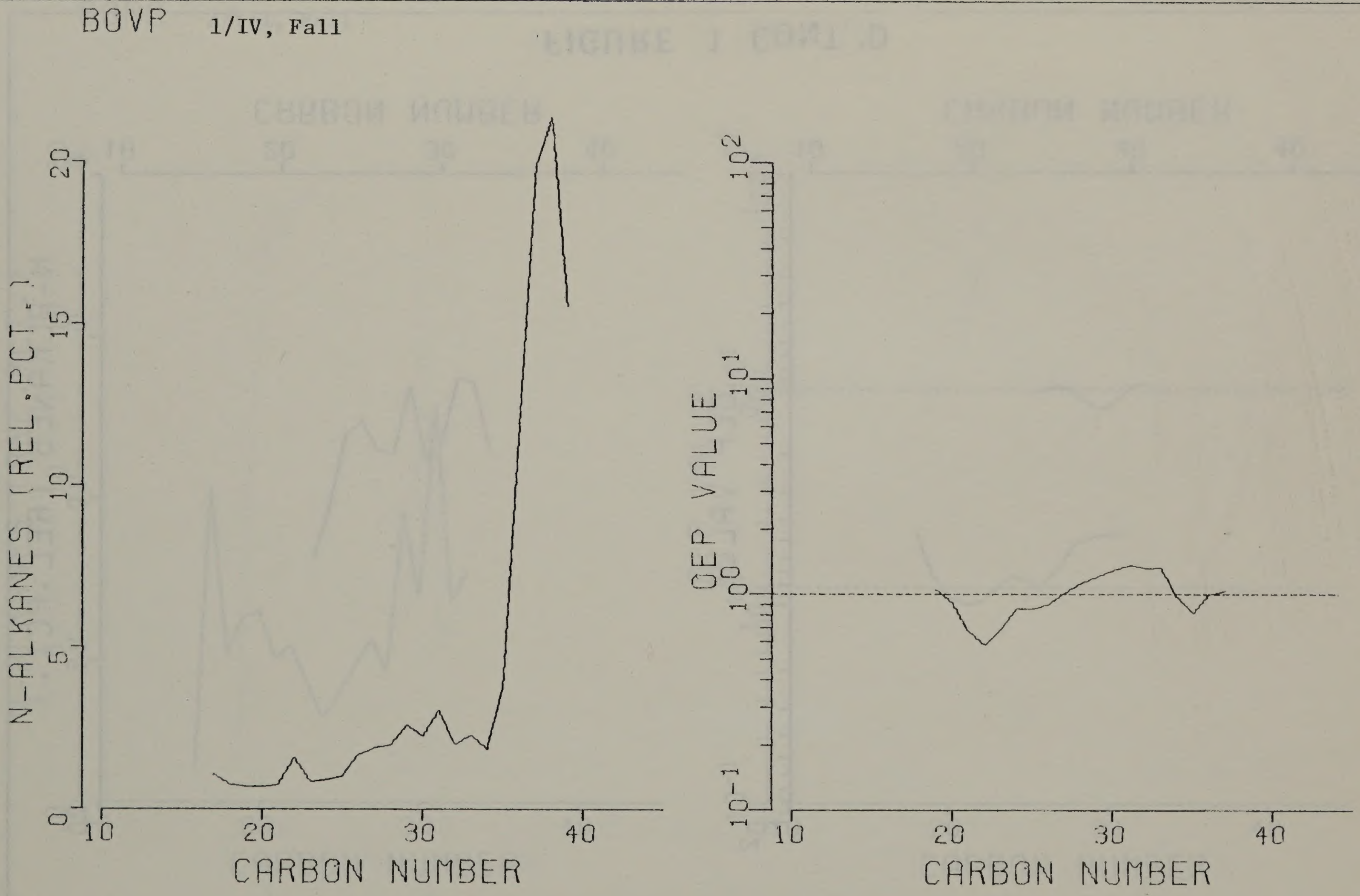


FIGURE 1 CONT.'D

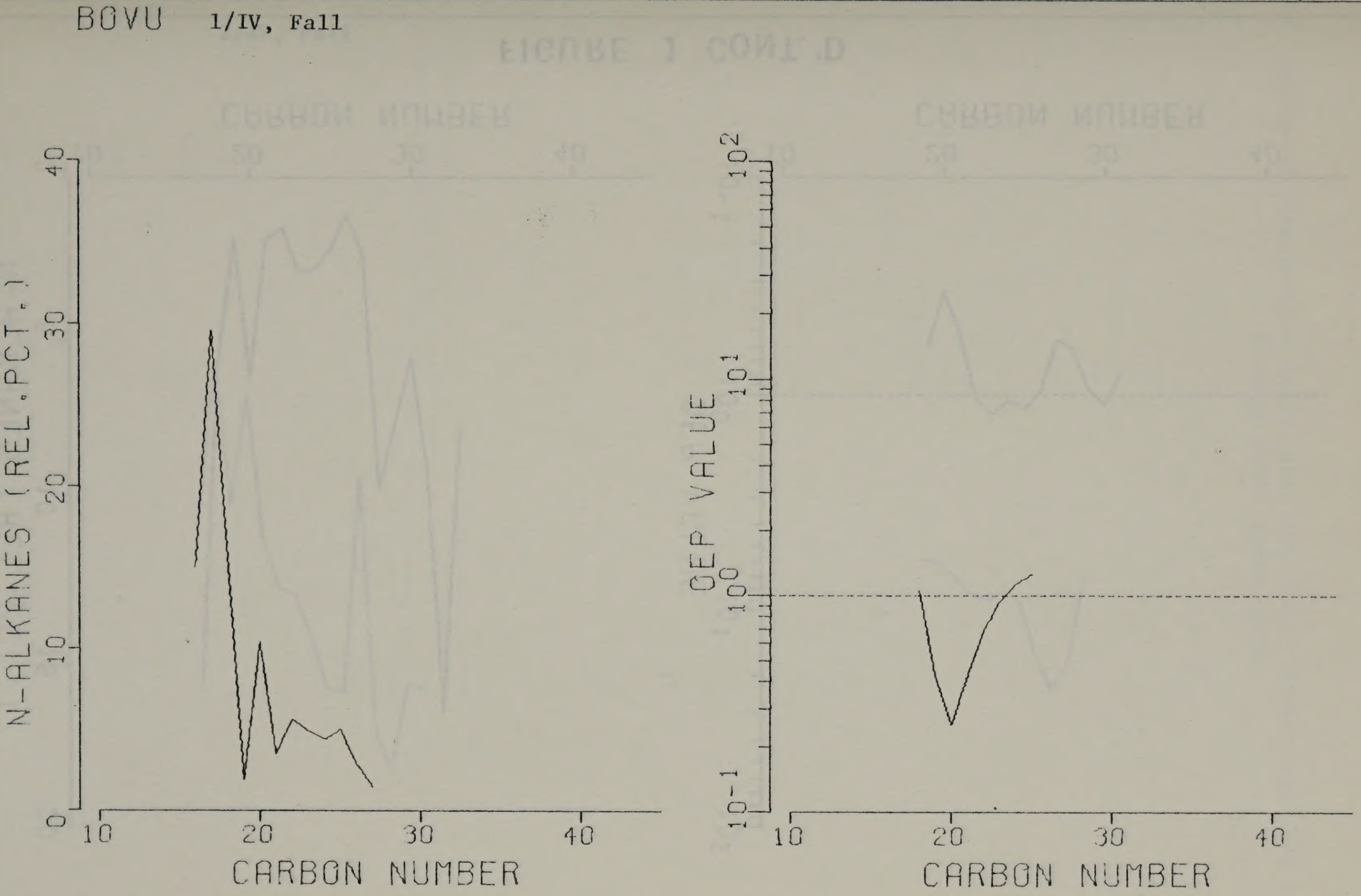


FIGURE 1 CONT.'D

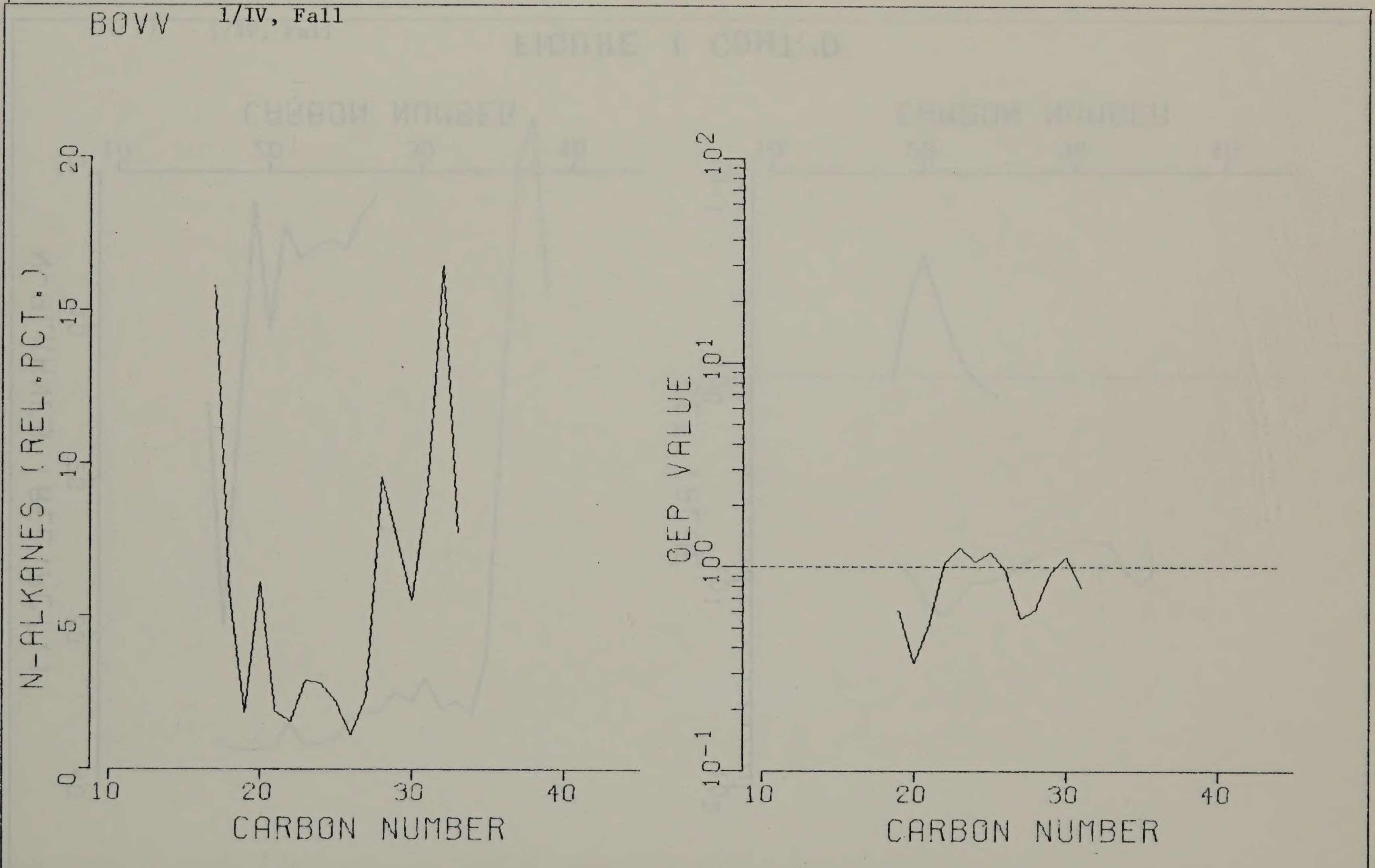


FIGURE 1 CONT.'D

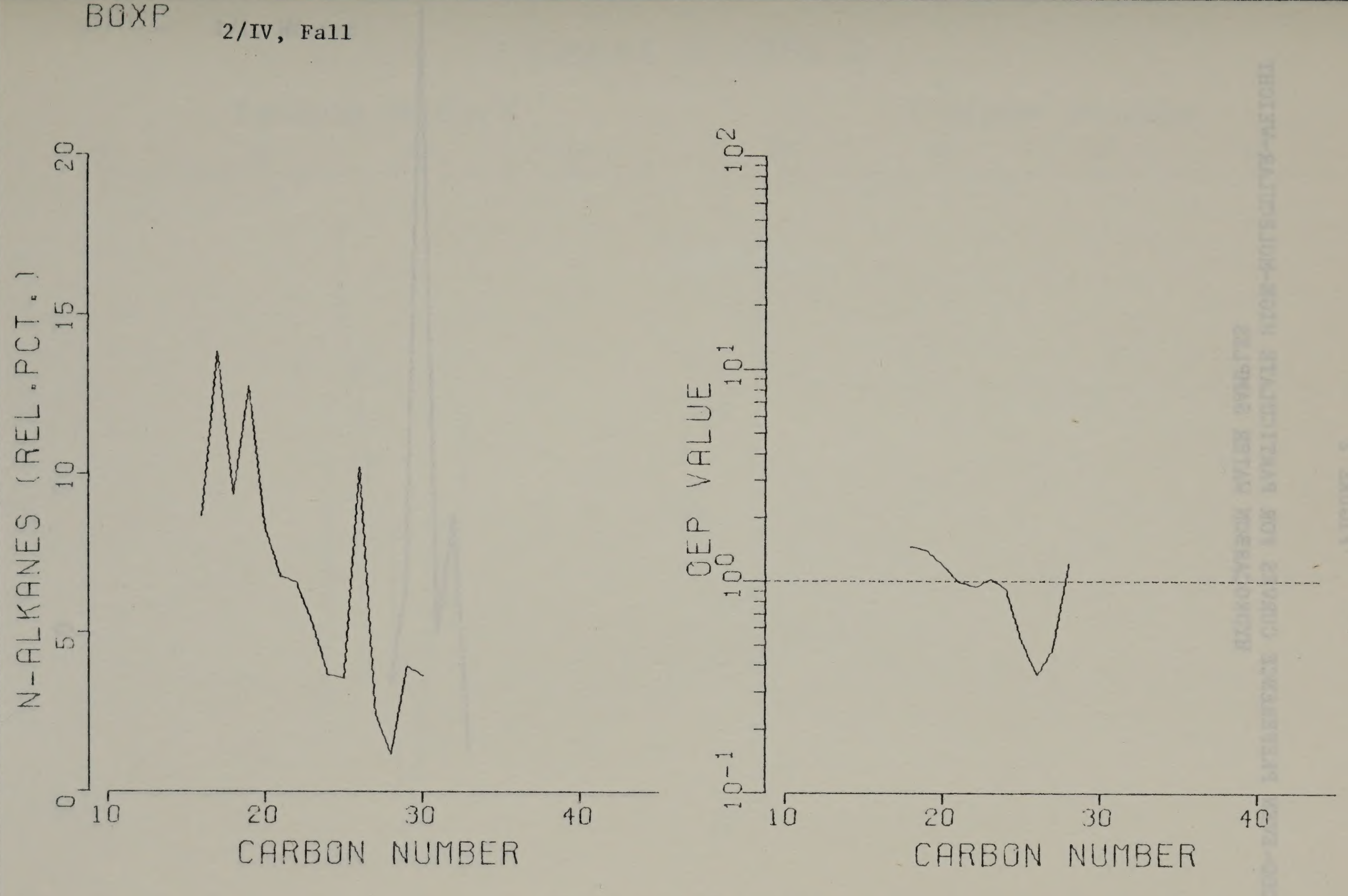


FIGURE 1 CONT.'D

FIGURE 2

ODD-EVEN PREFERENCE CURVES FOR PARTICULATE HIGH-MOLECULAR-WEIGHT HYDROCARBON WATER SAMPLES

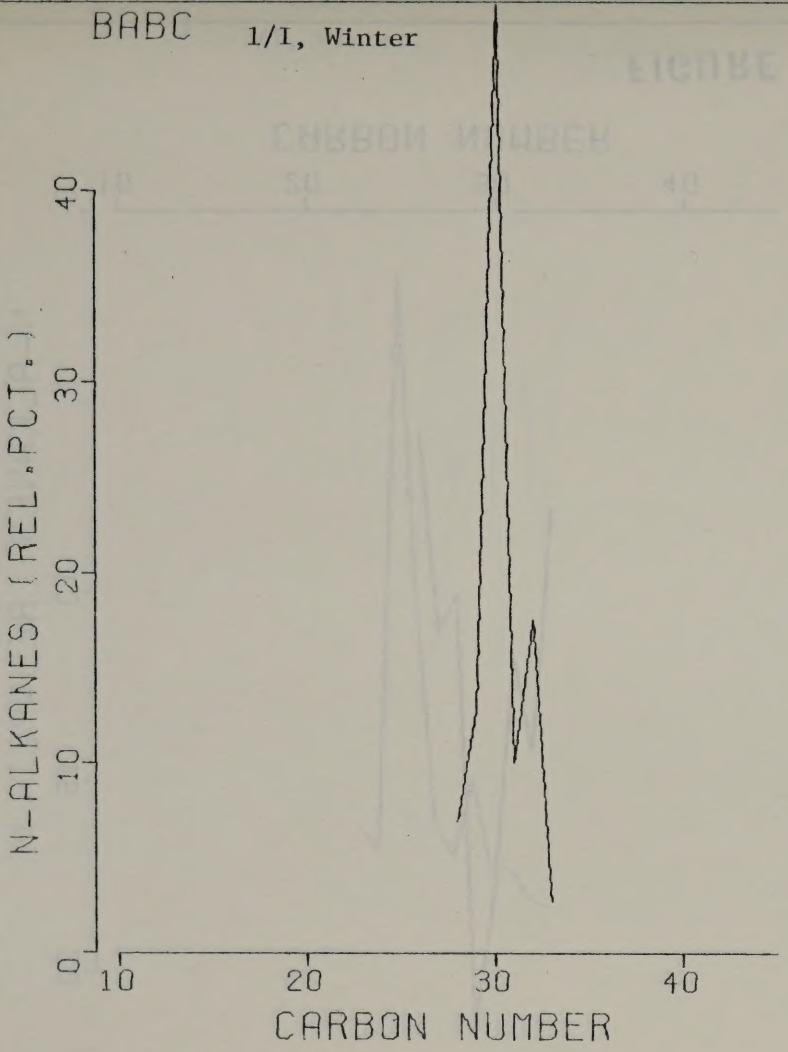


FIGURE 2 CONT.'D

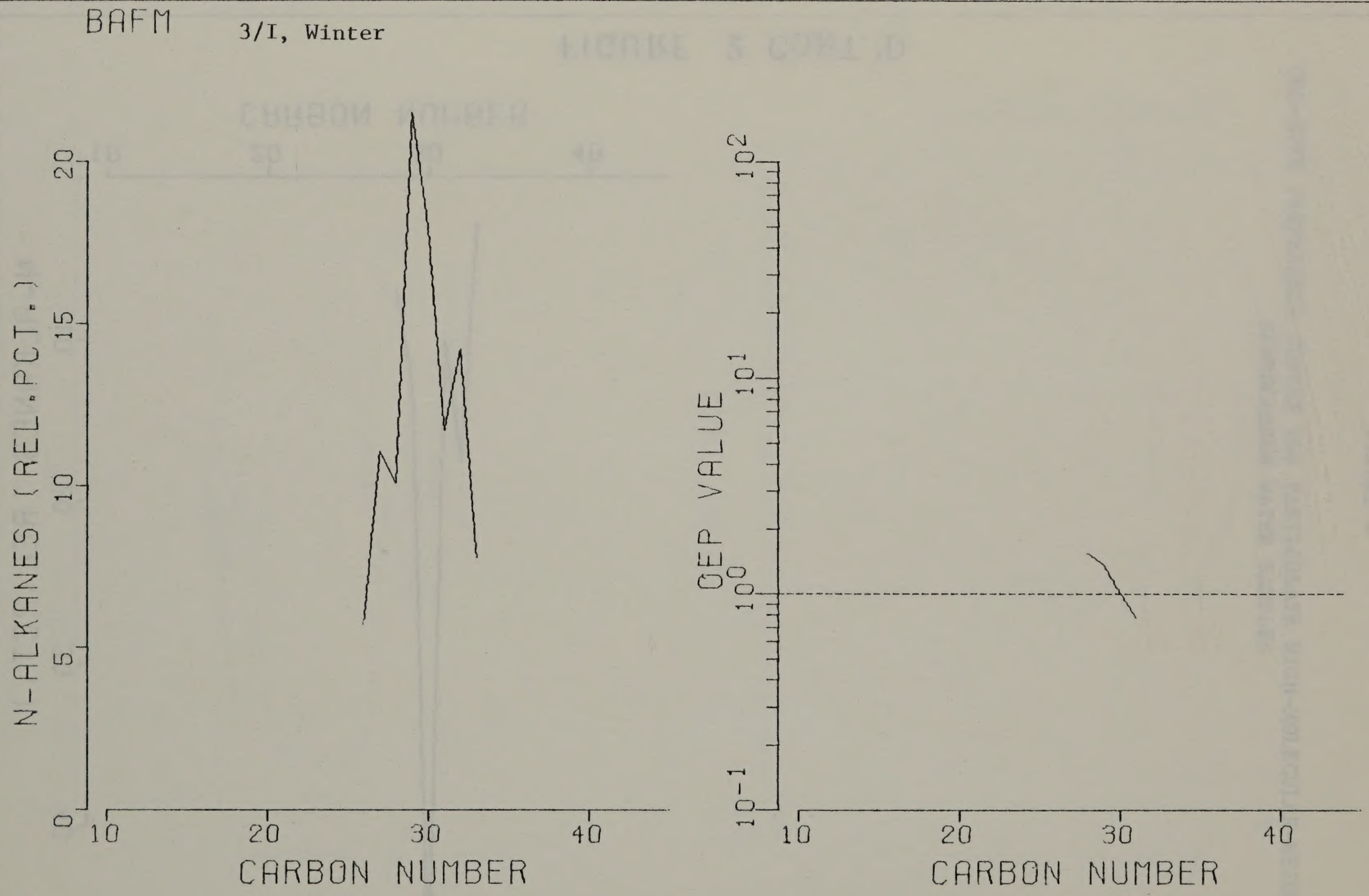


FIGURE 2 CONT.'D

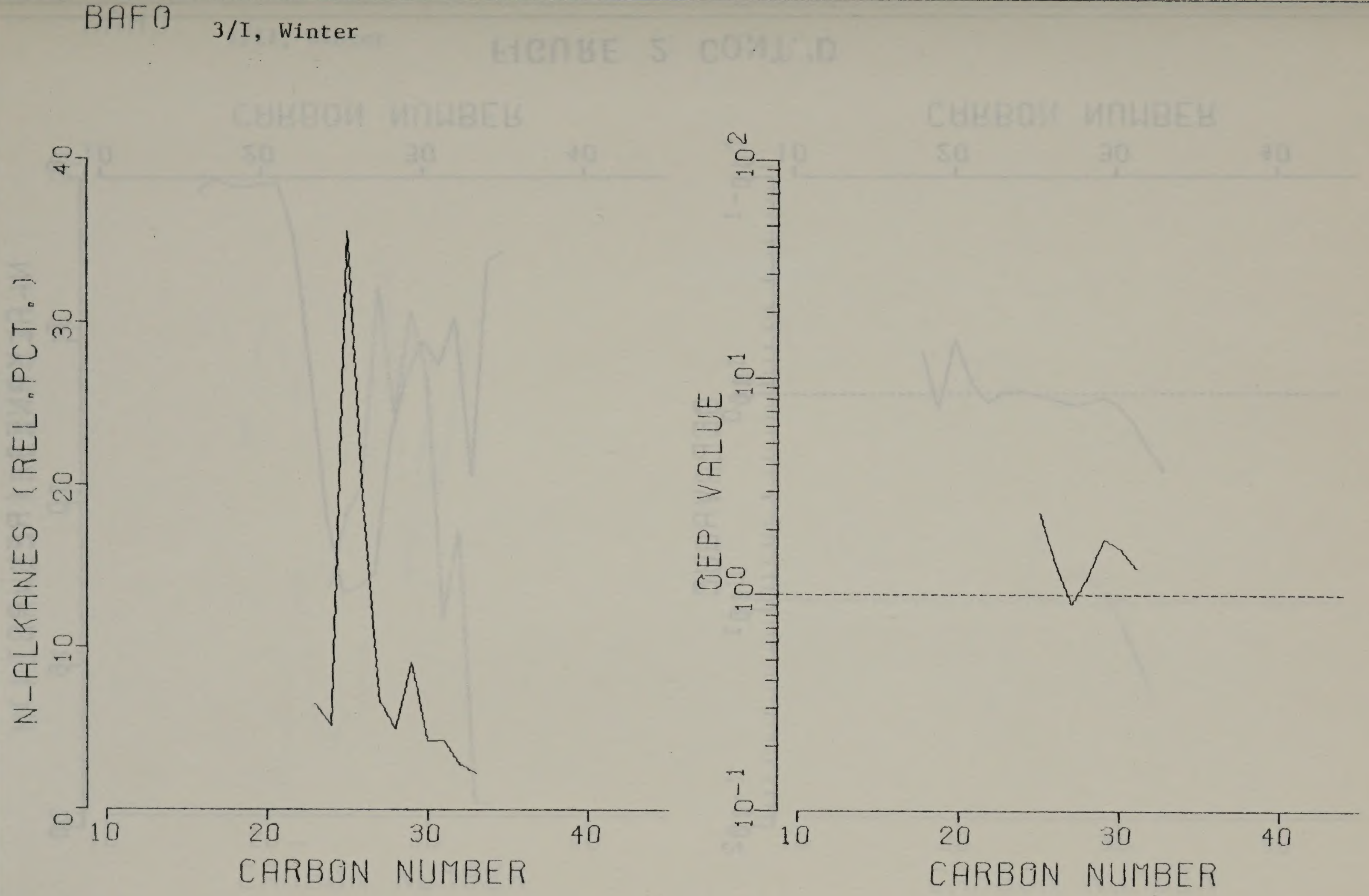


FIGURE 2 CONT.'D

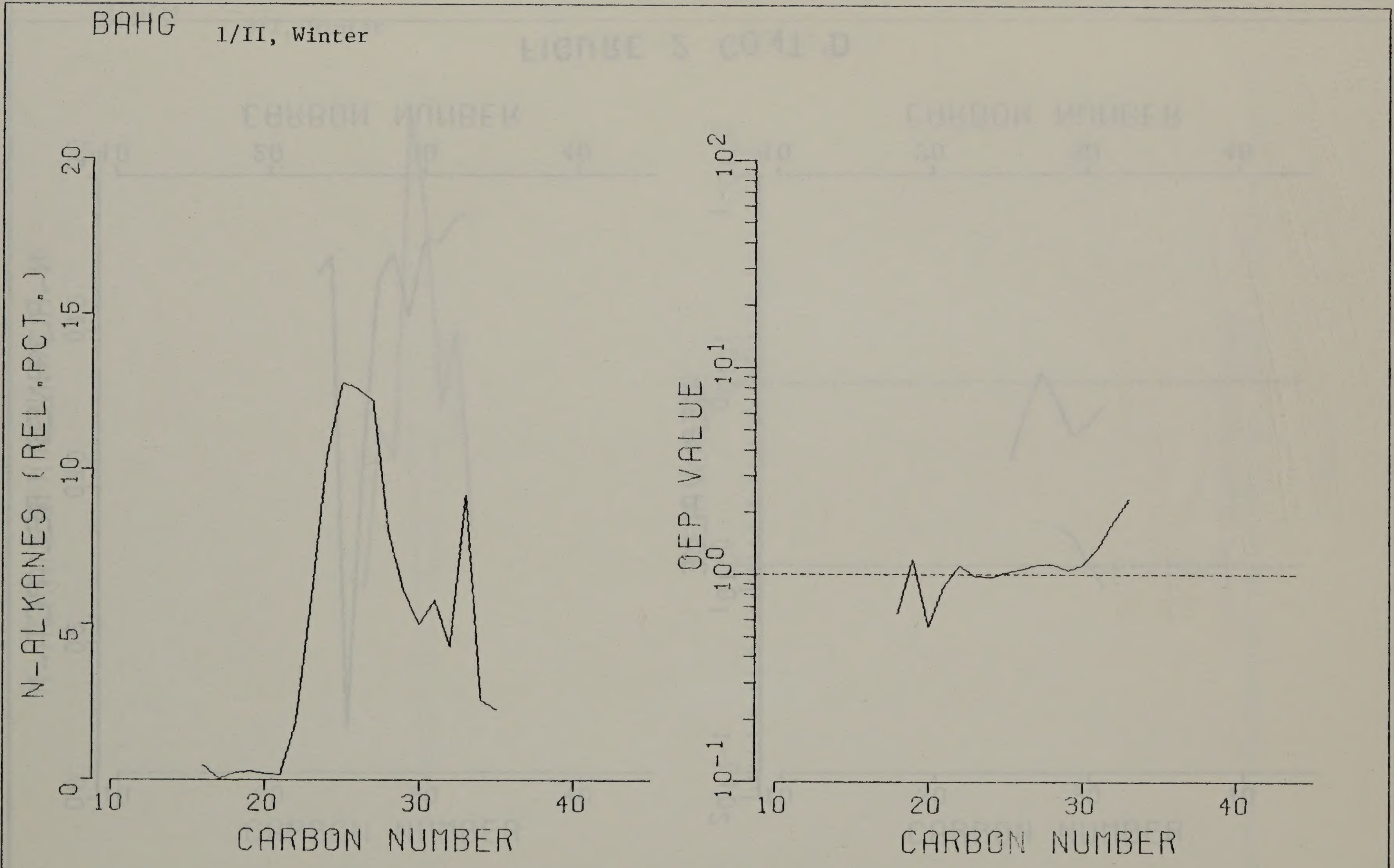


FIGURE 2 CONT.'D

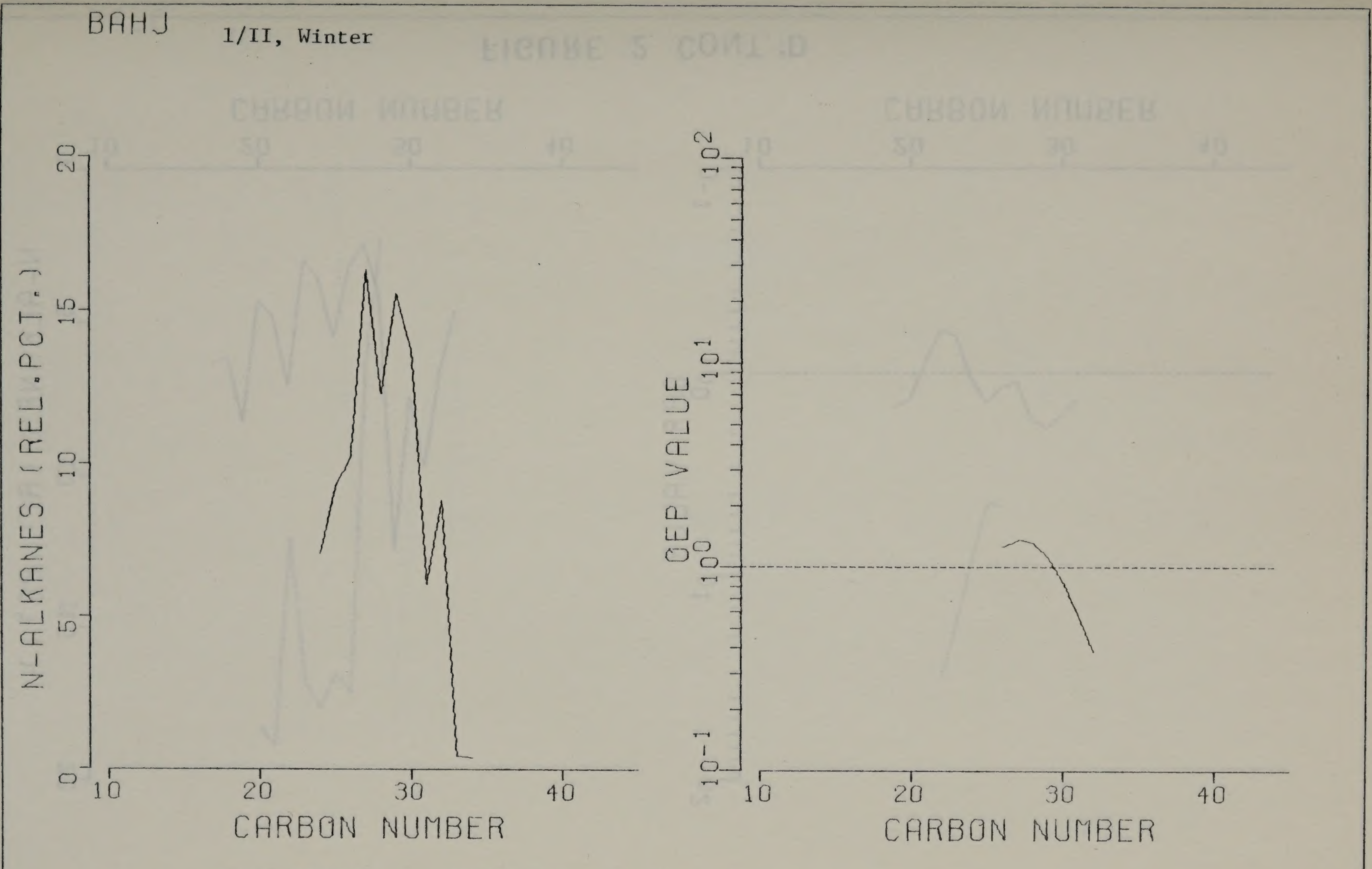


FIGURE 2 CONT.'D'

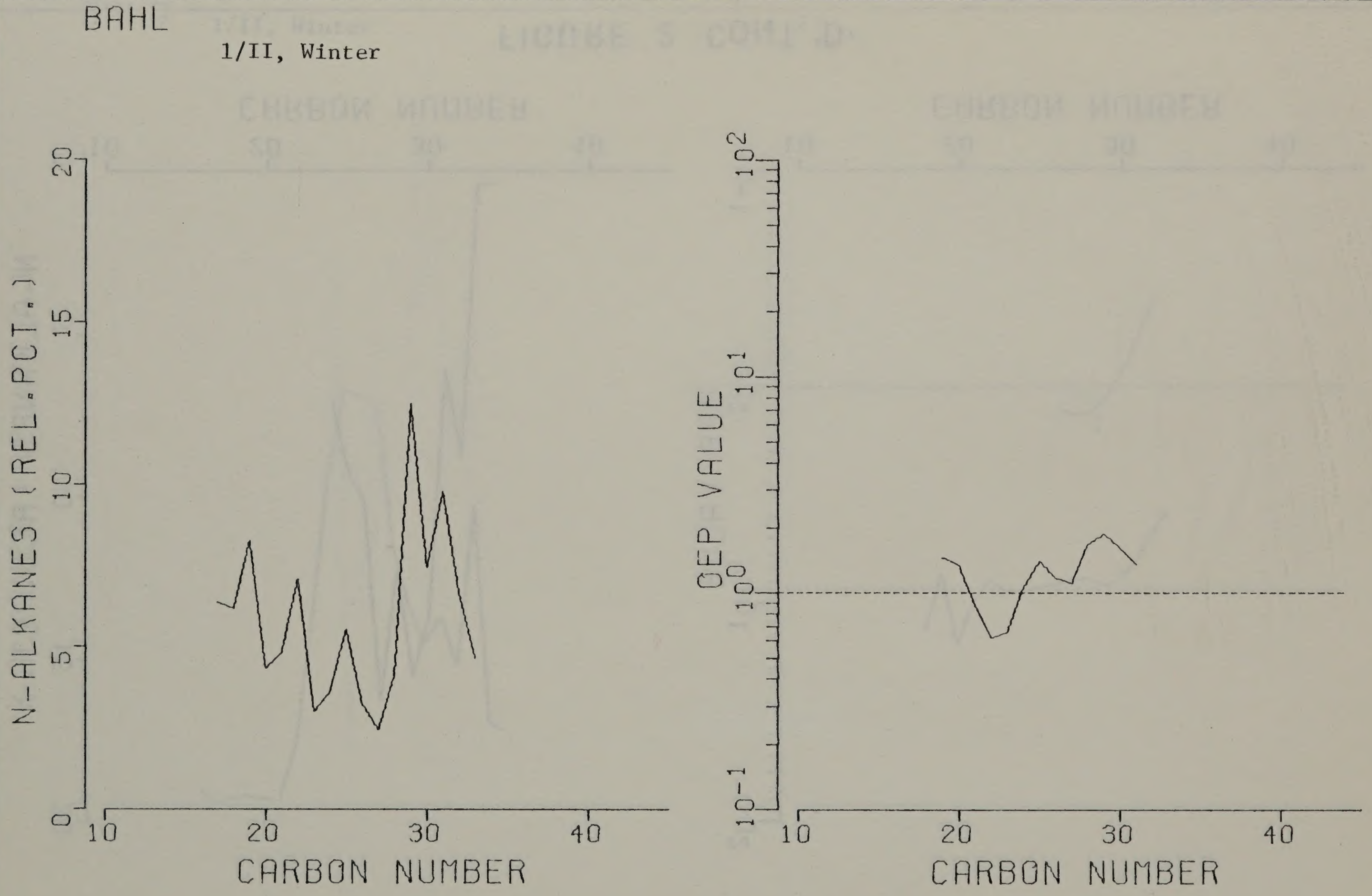
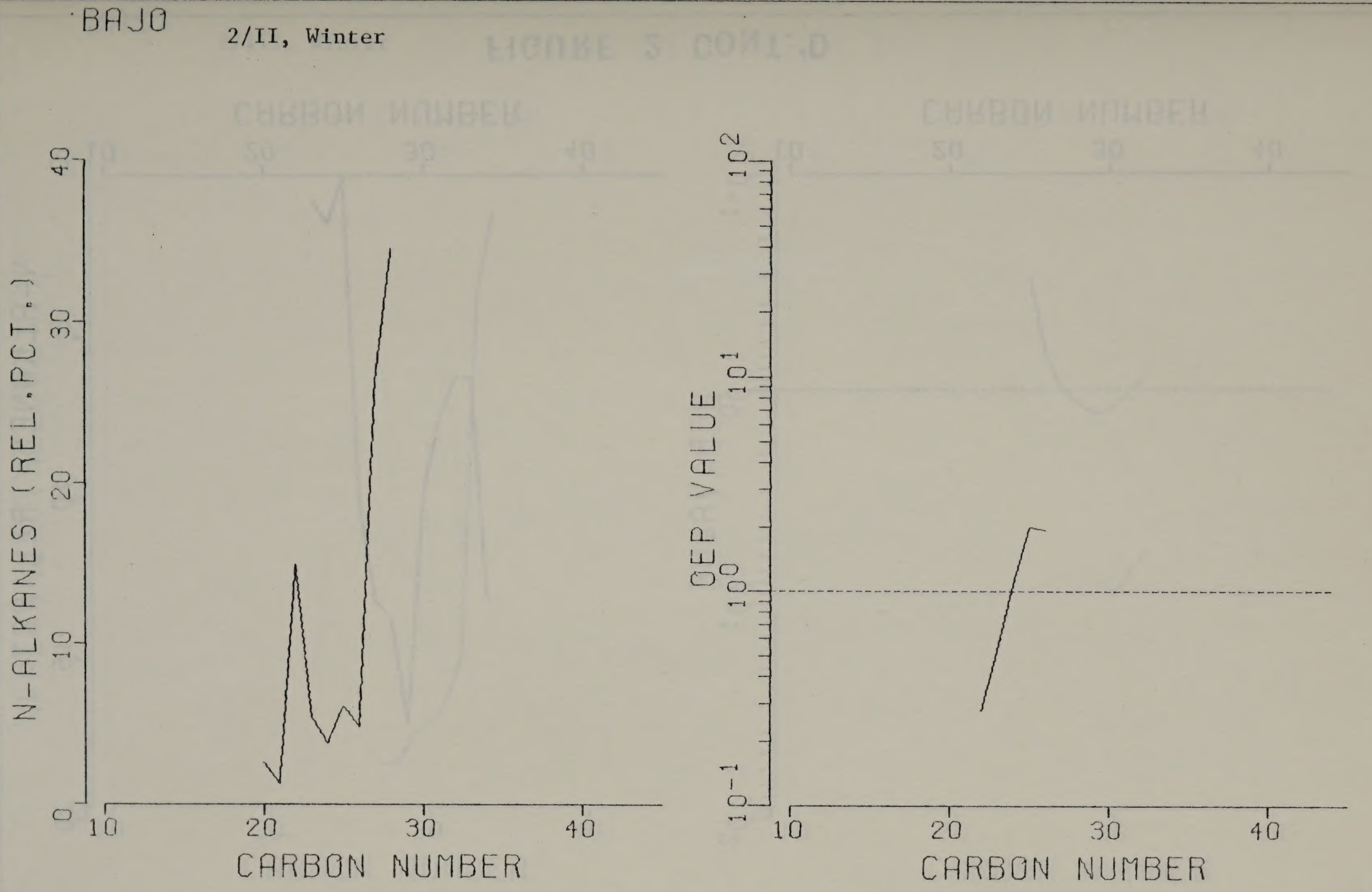


FIGURE 2 CONT.'D



BAJO

2/II, Winter

FIGURE 2 CONT.'D

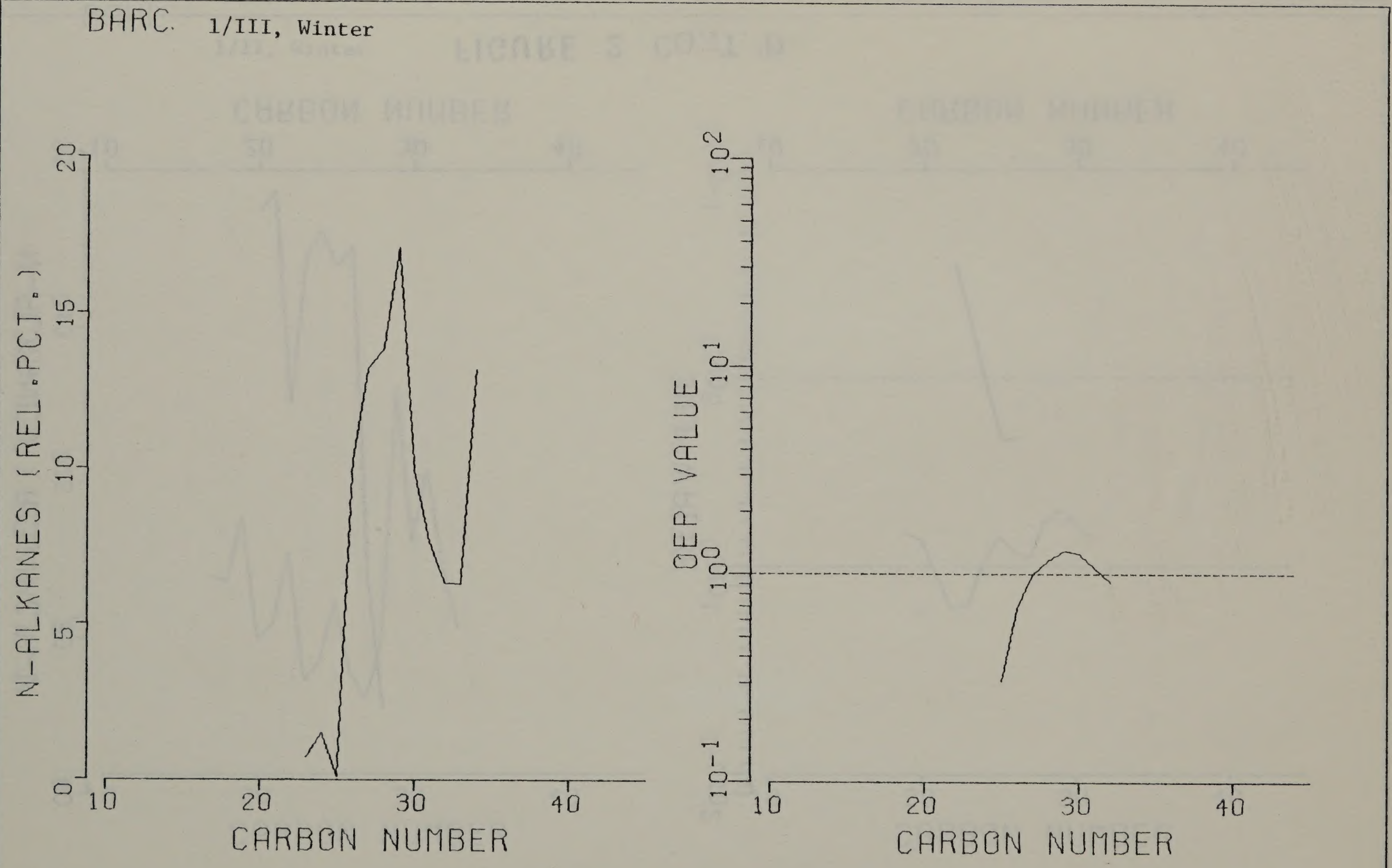


FIGURE 2 CONT.'D

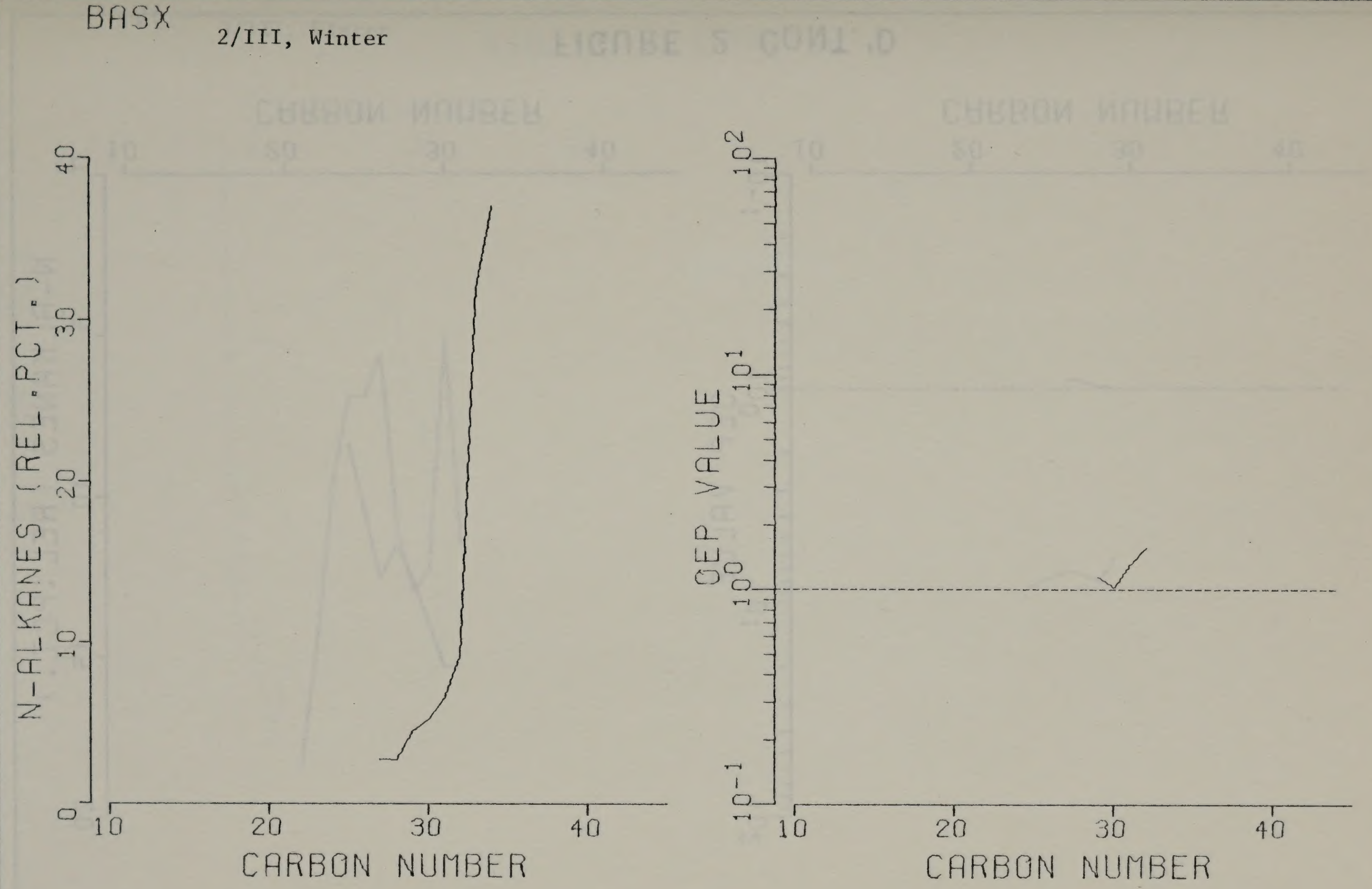


FIGURE 2 CONT.'D

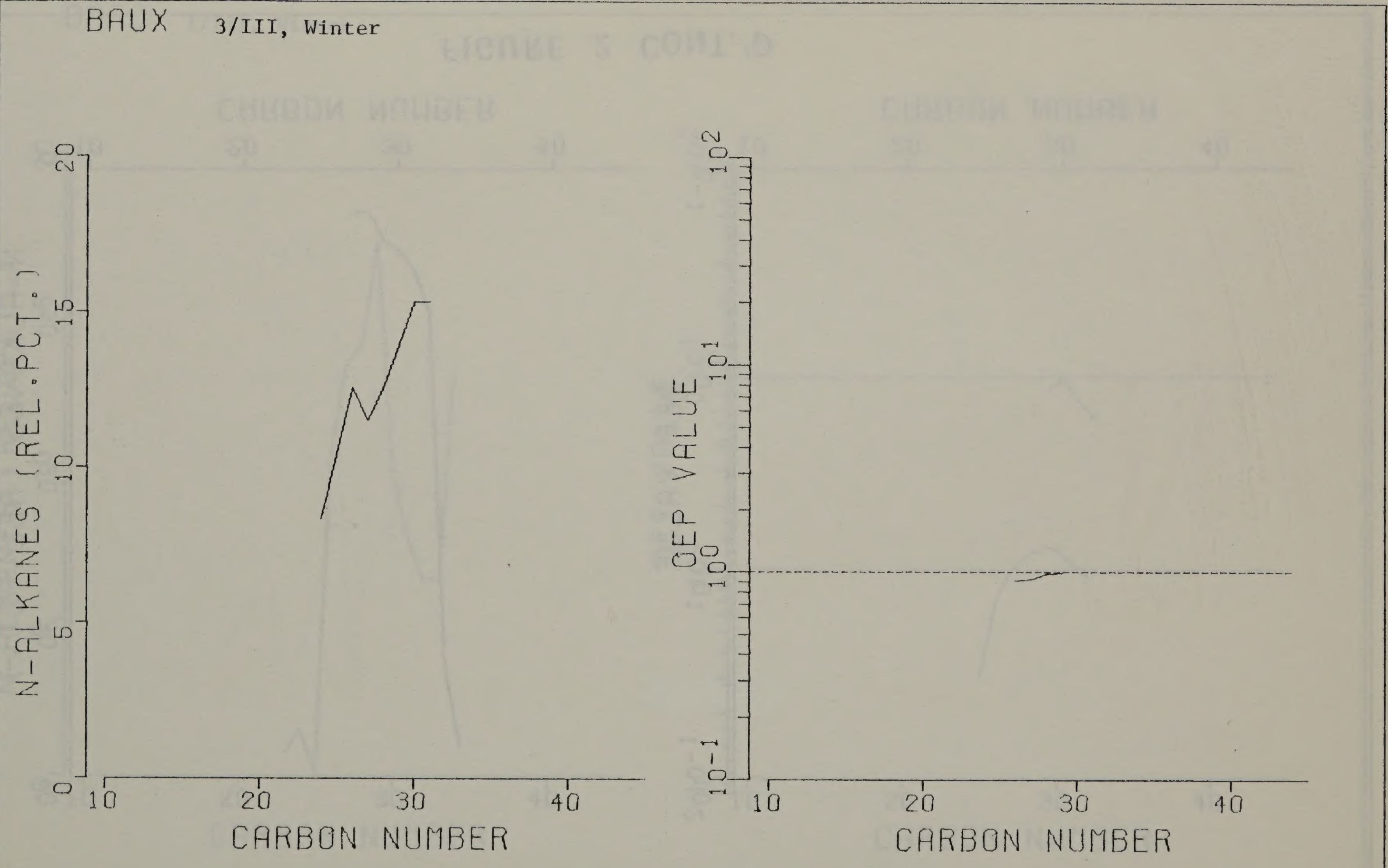


FIGURE 2 CONT.'D

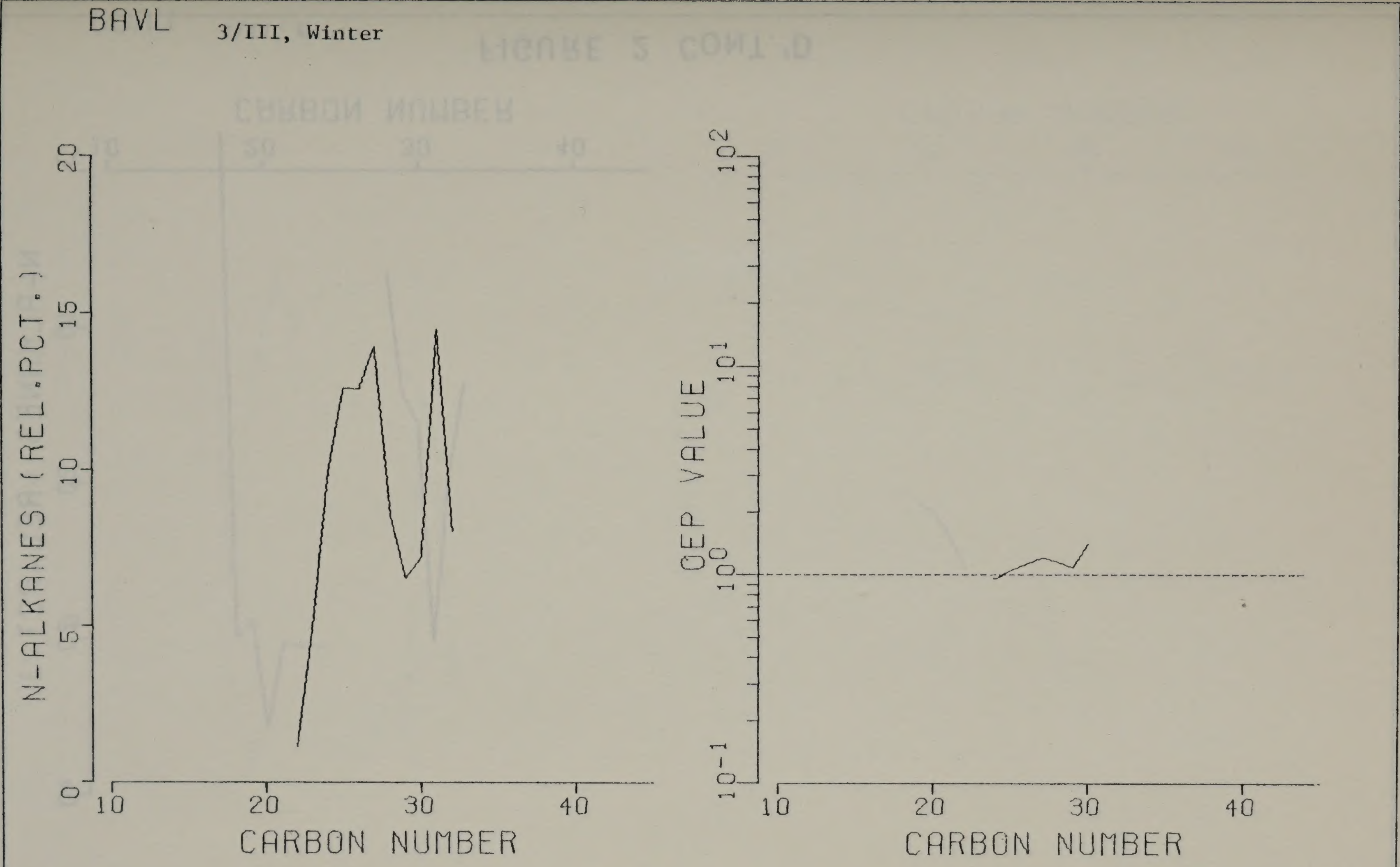


FIGURE 2 CONT.'D

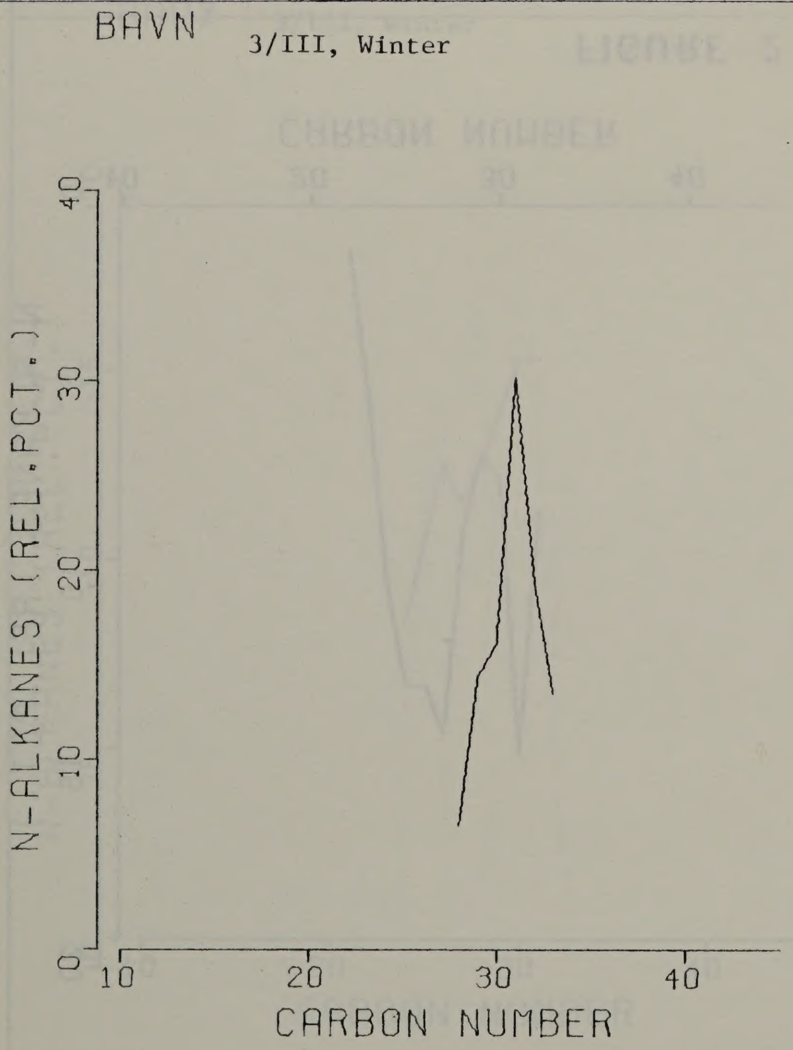
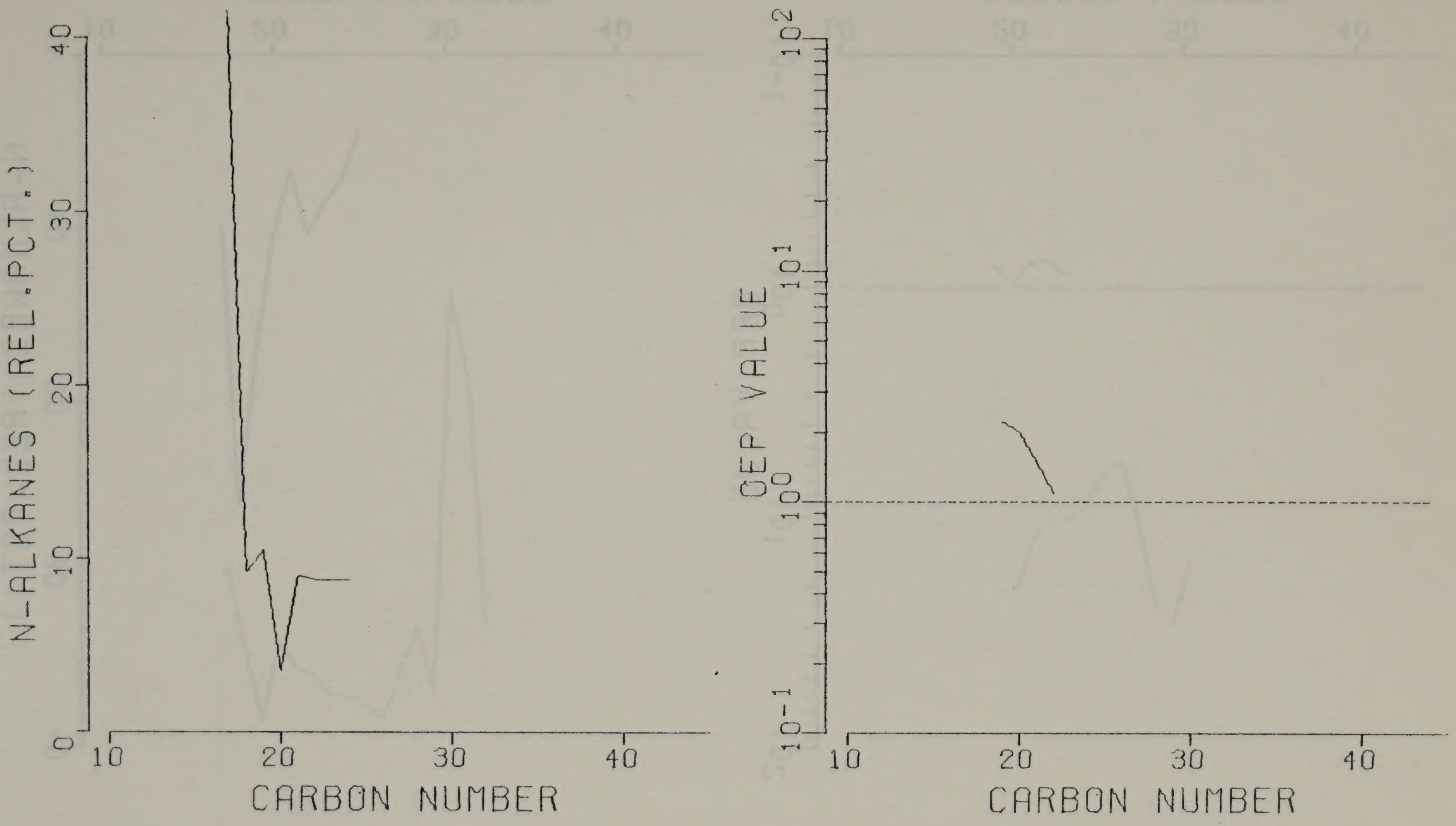


FIGURE 2 CONT.'D

BBAU 3/IV, Winter



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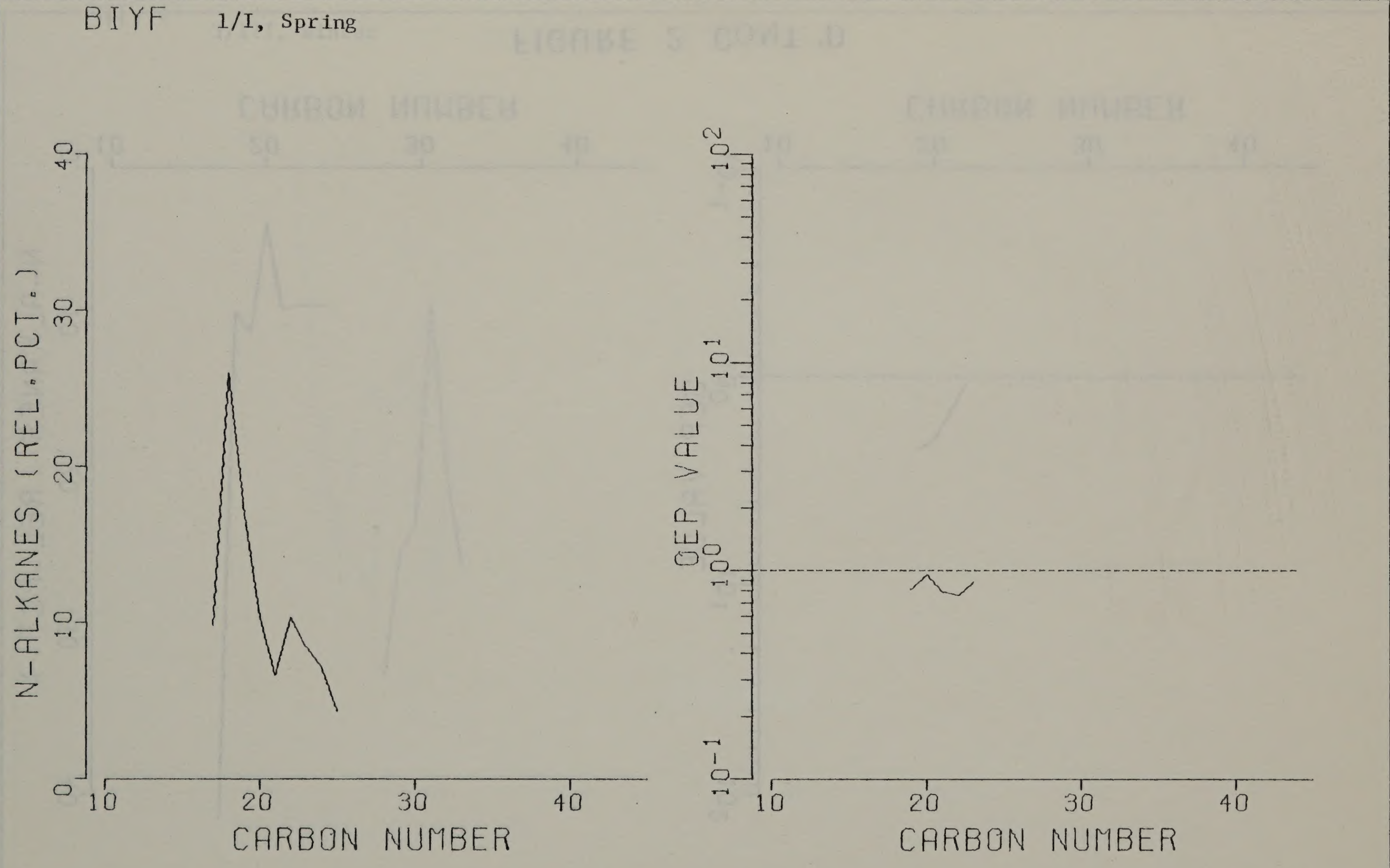

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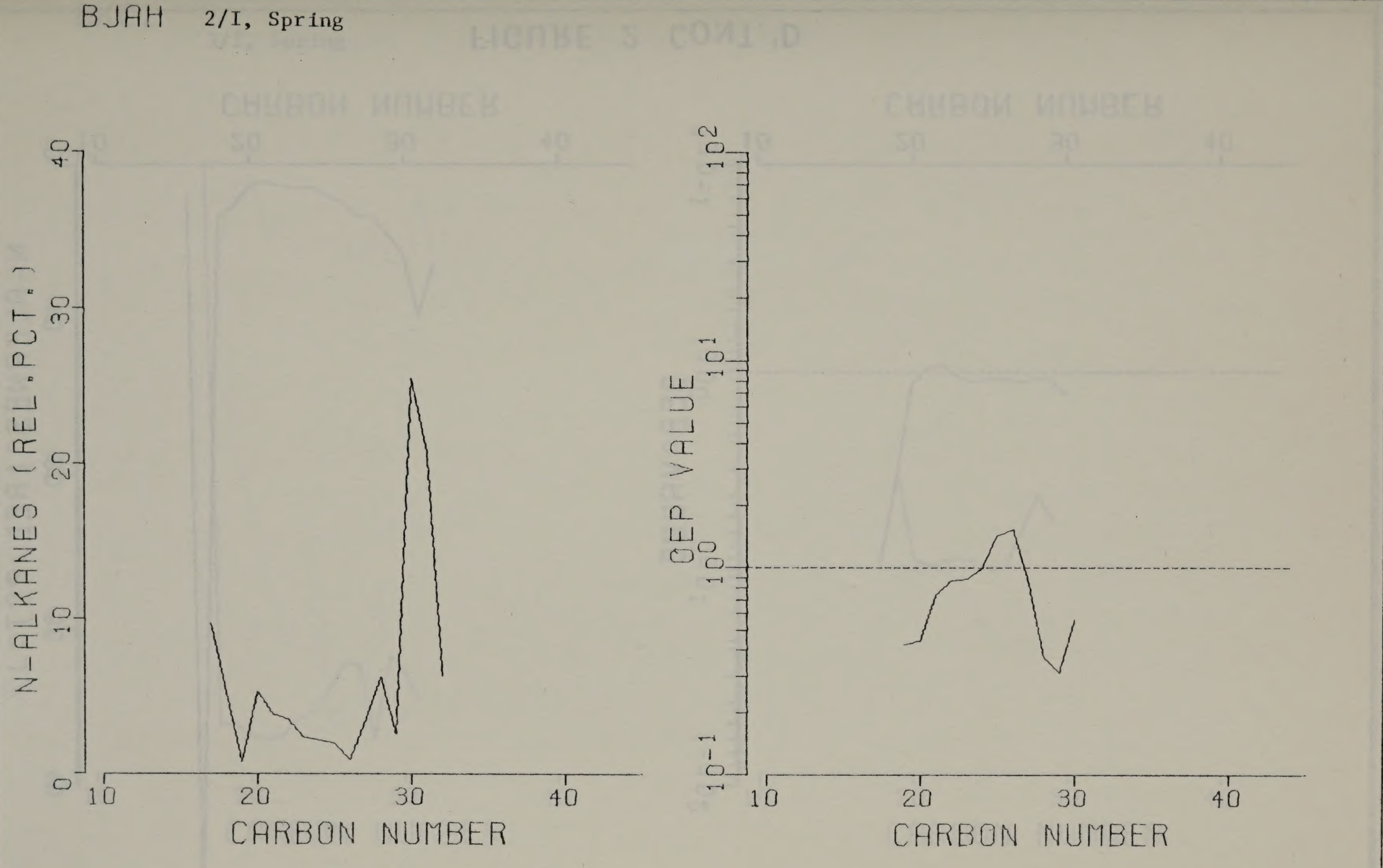

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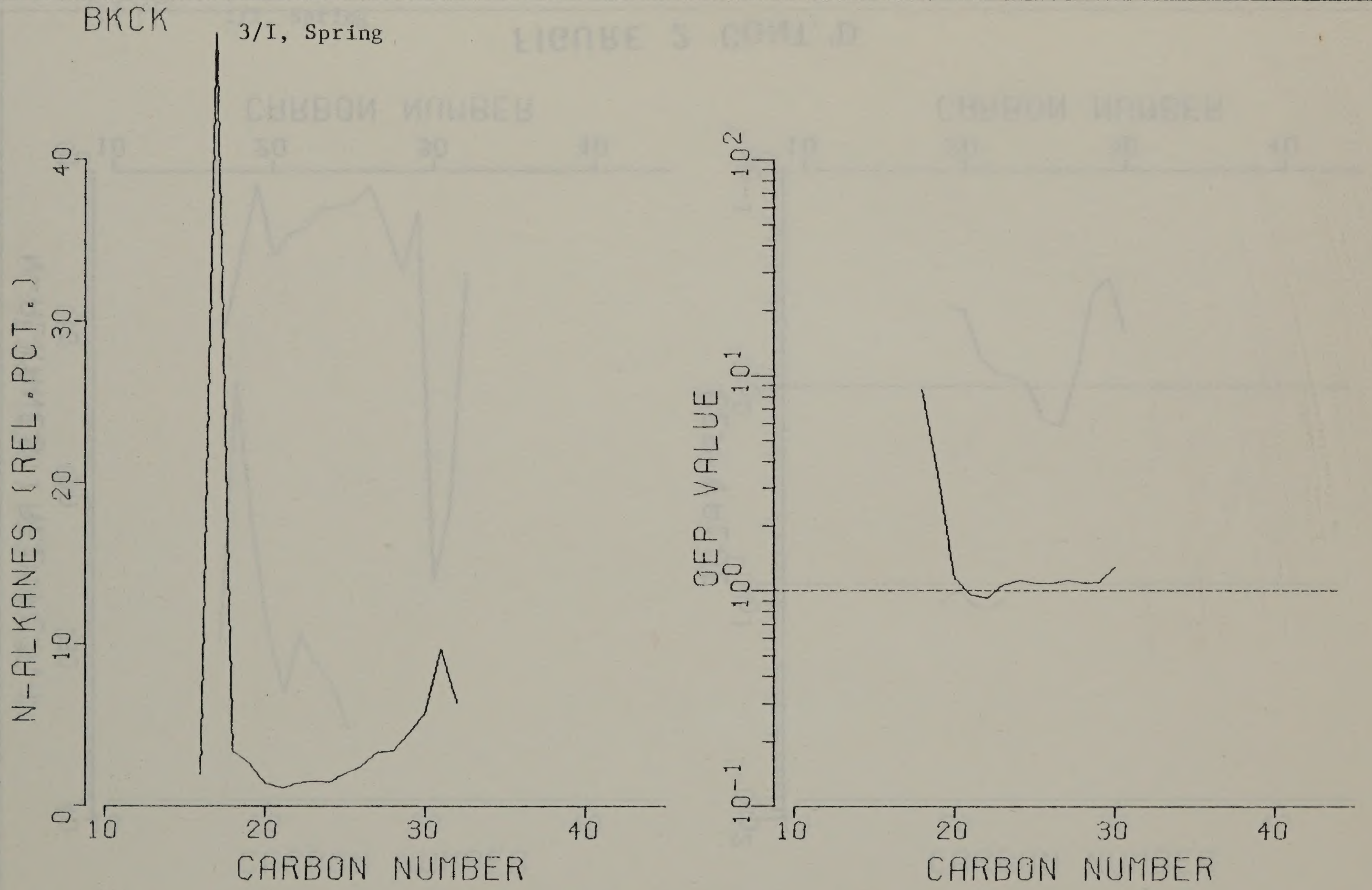

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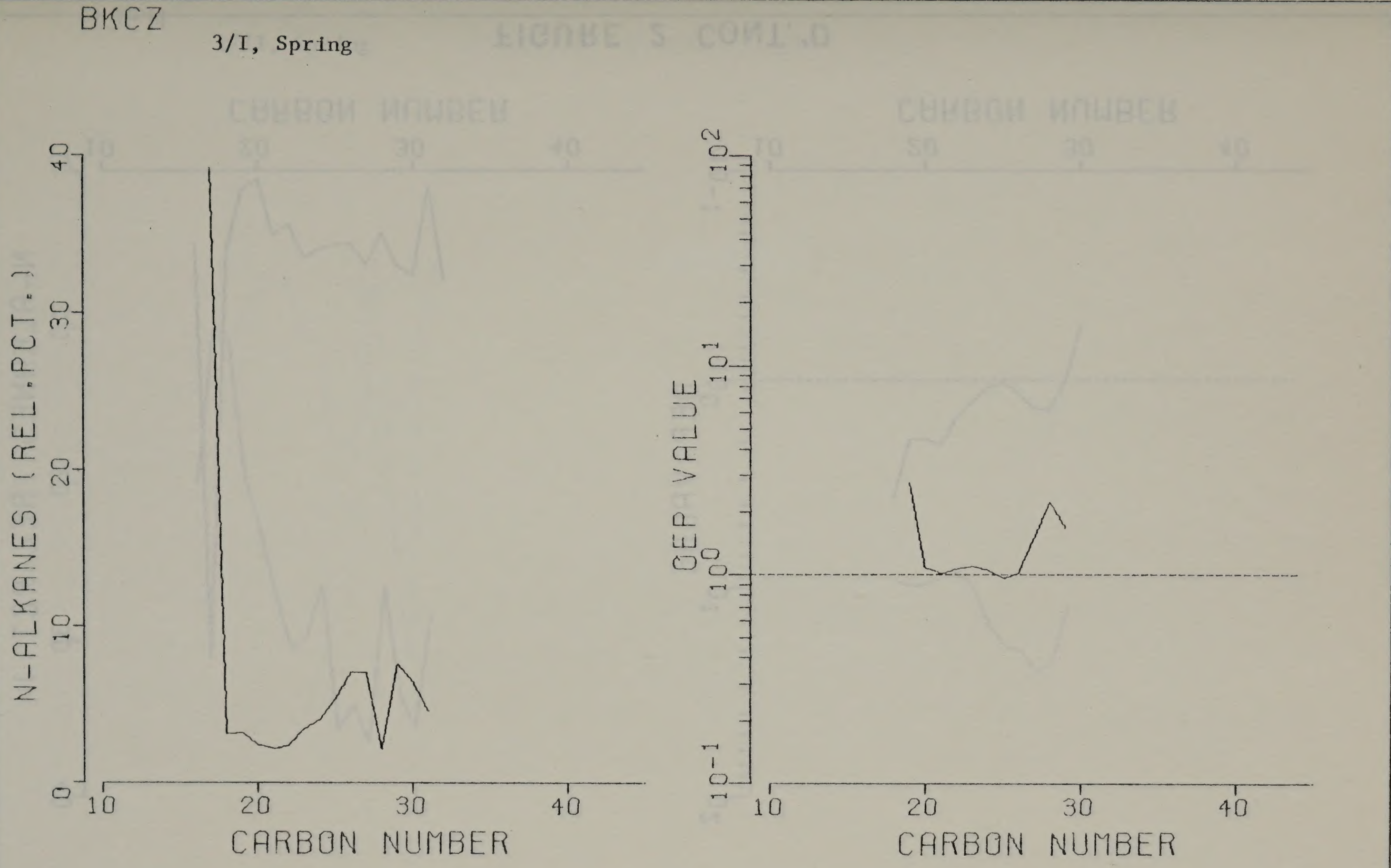

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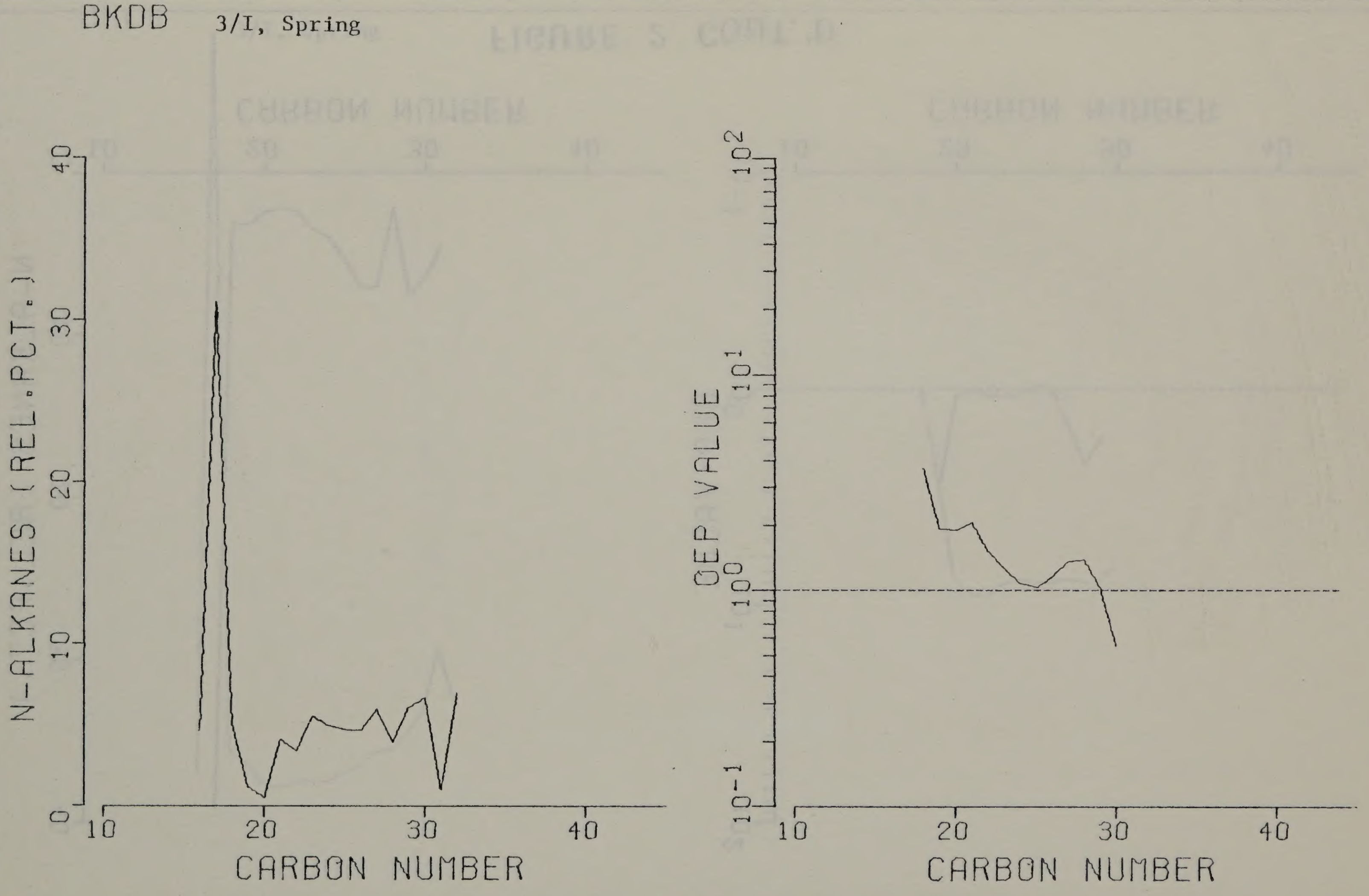

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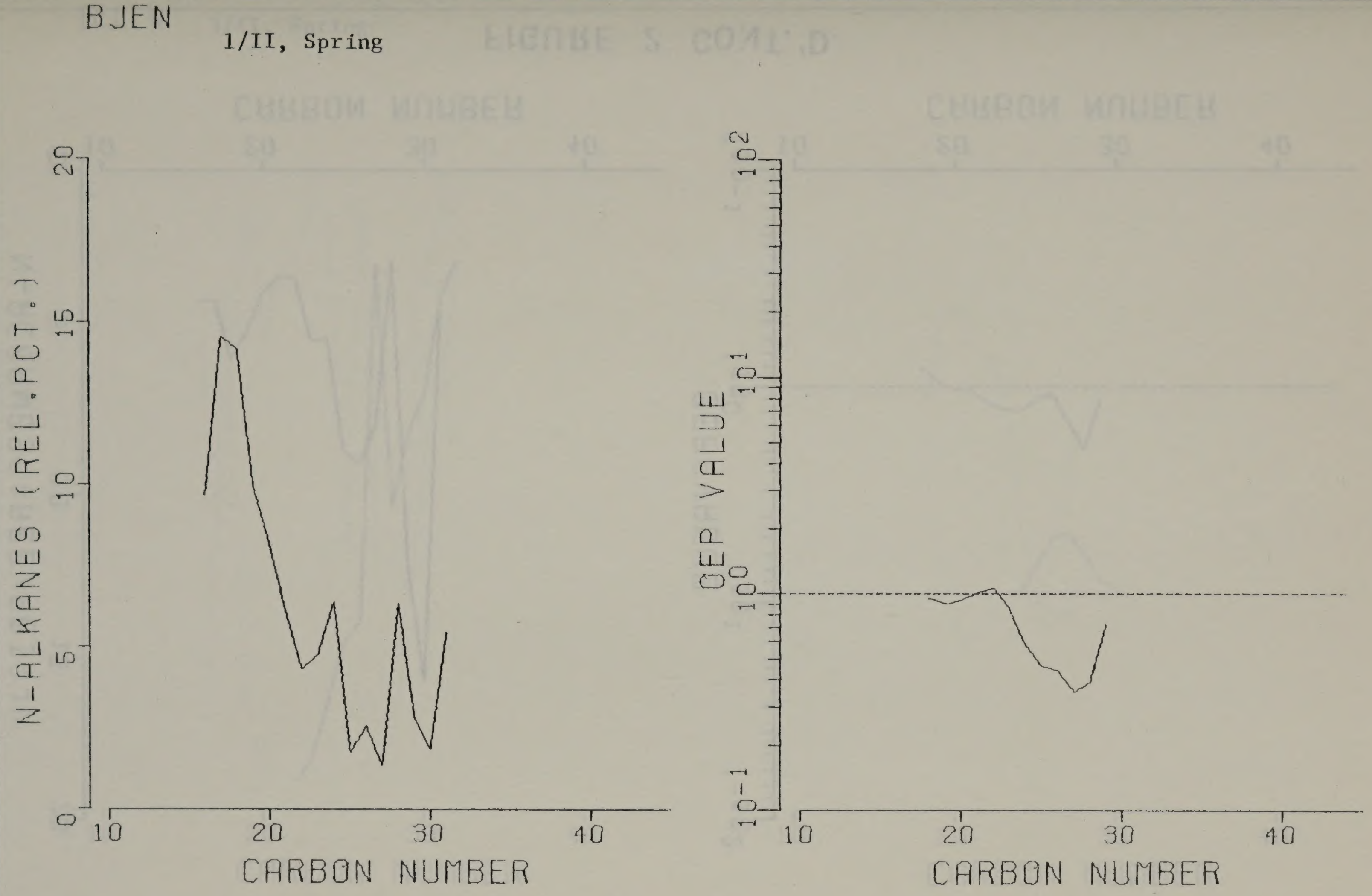

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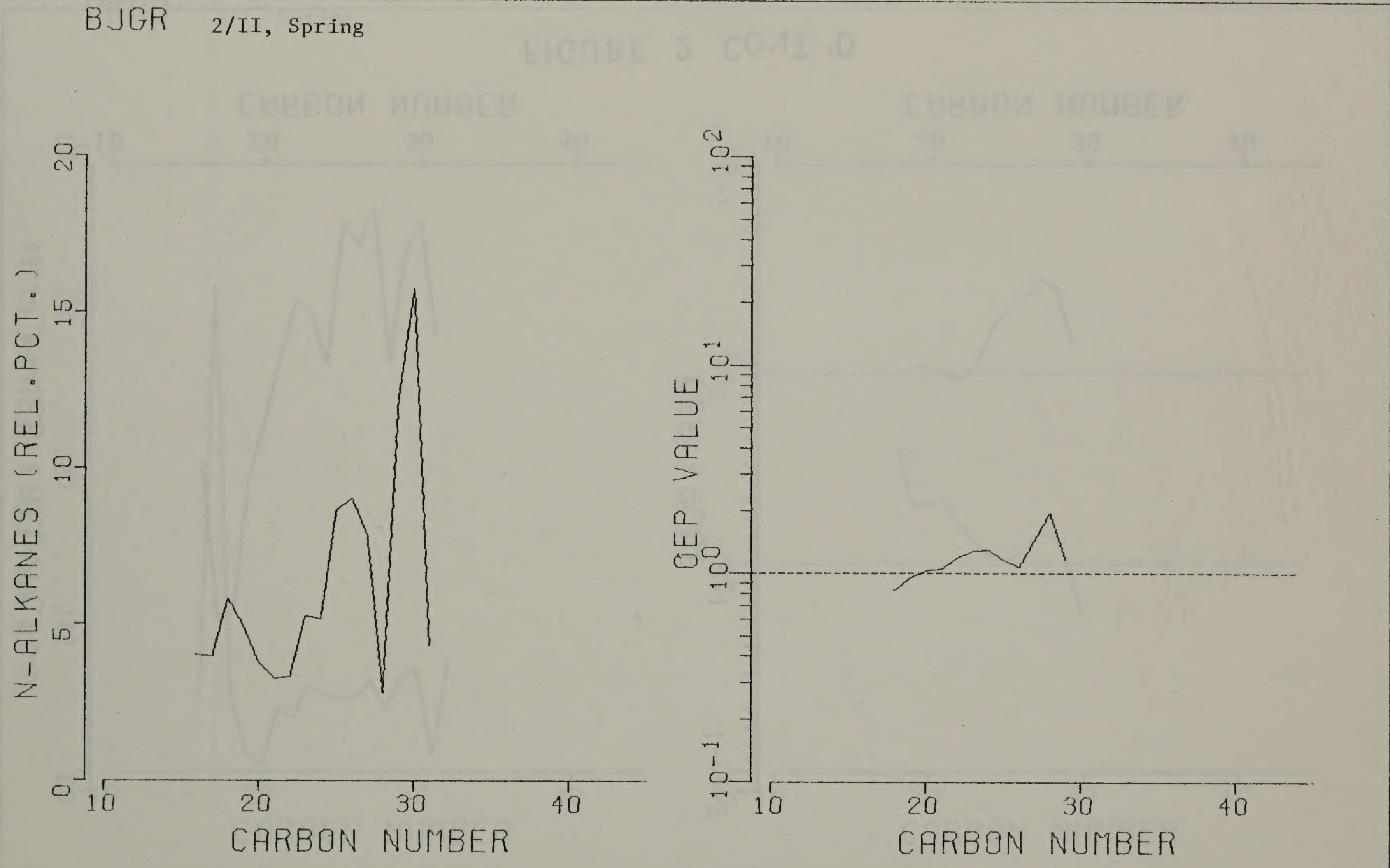

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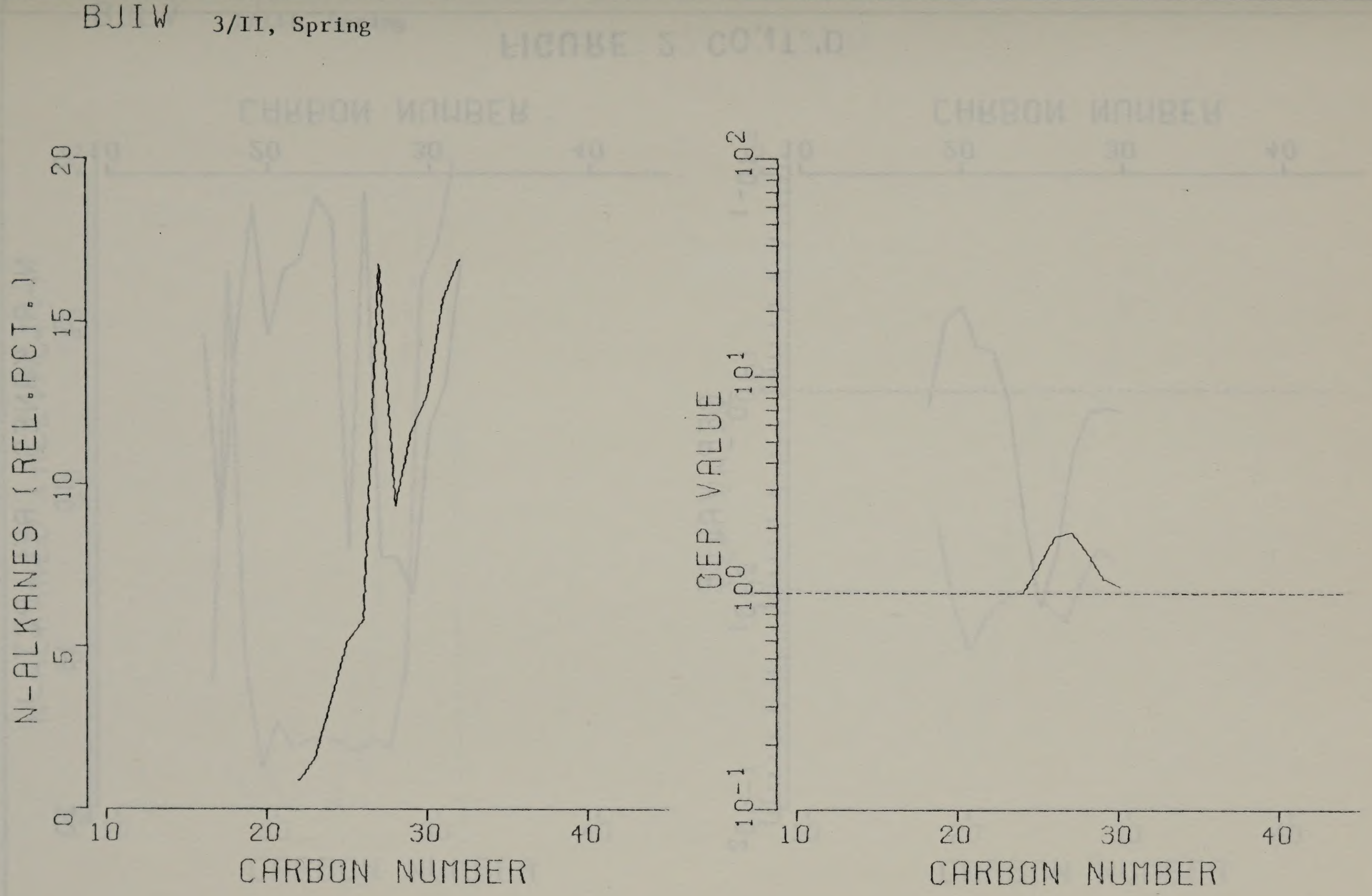

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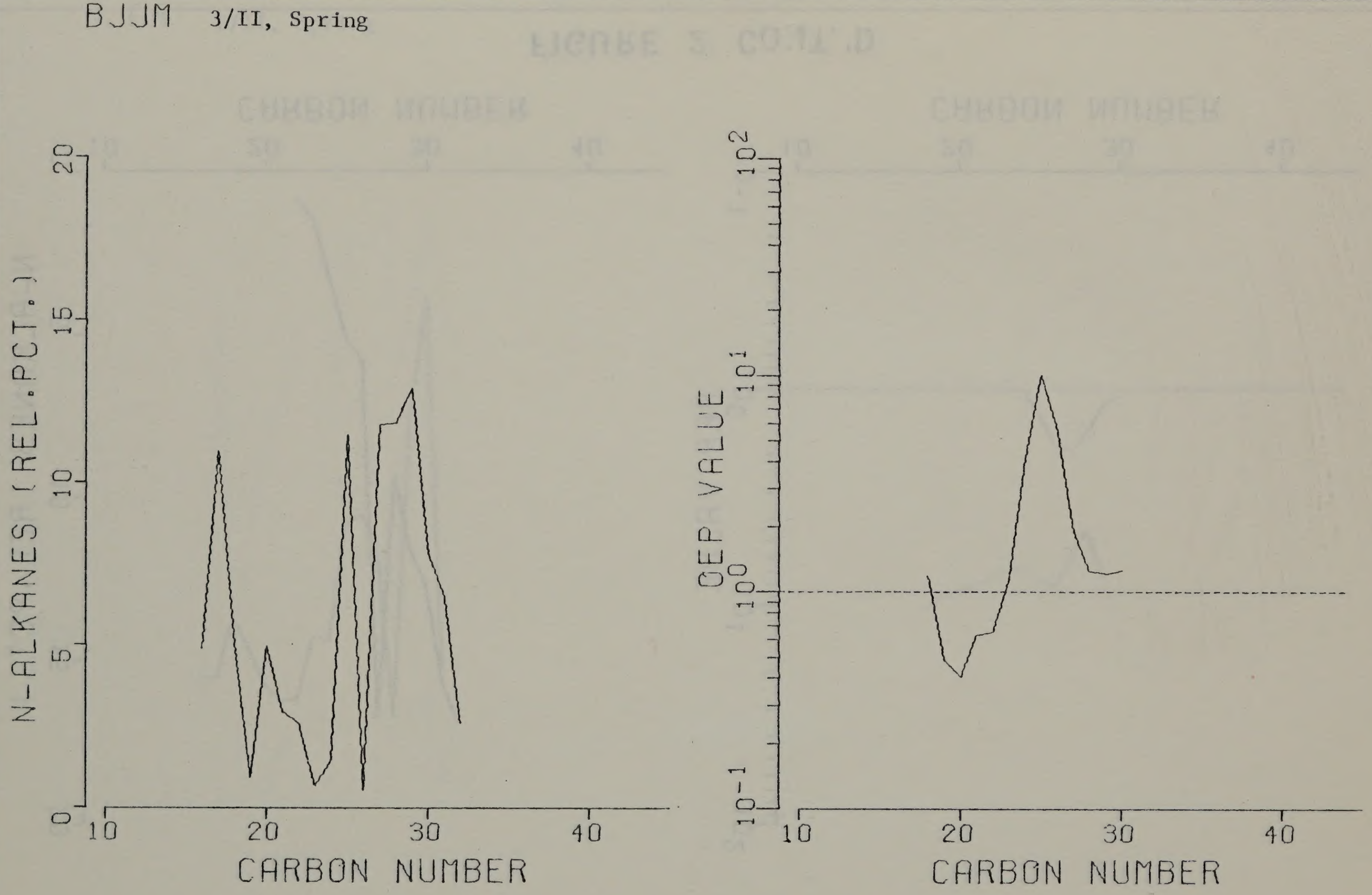

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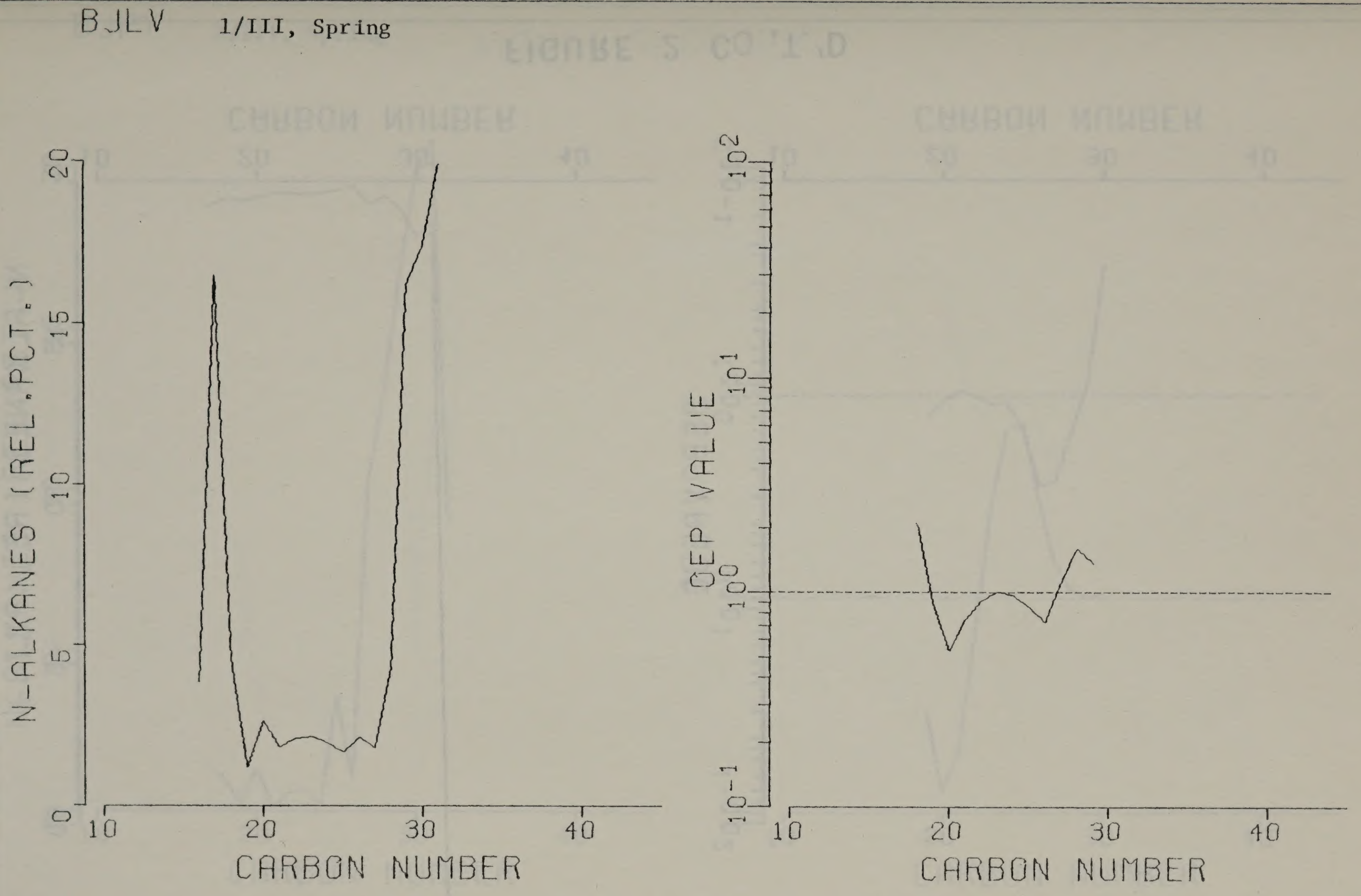

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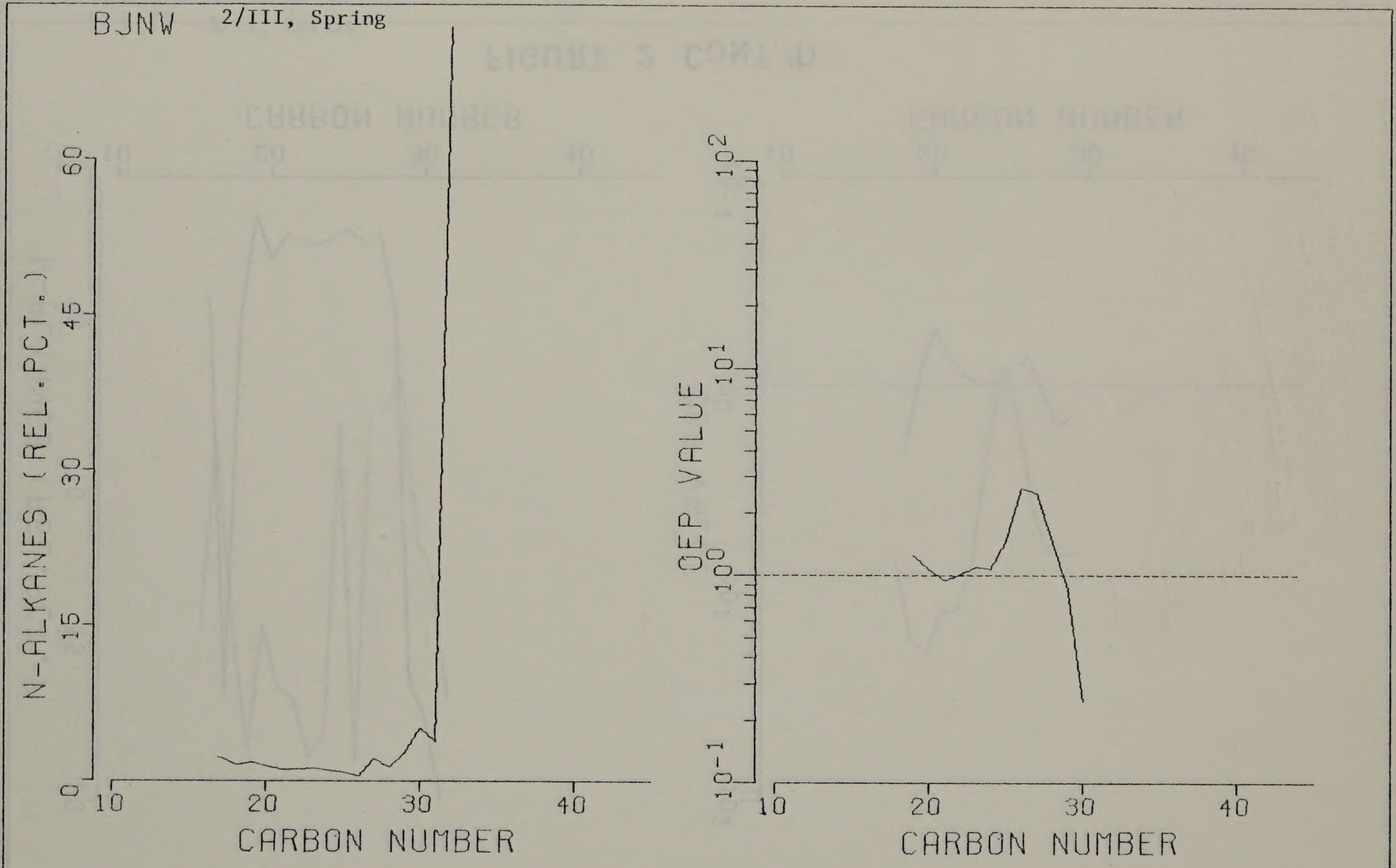

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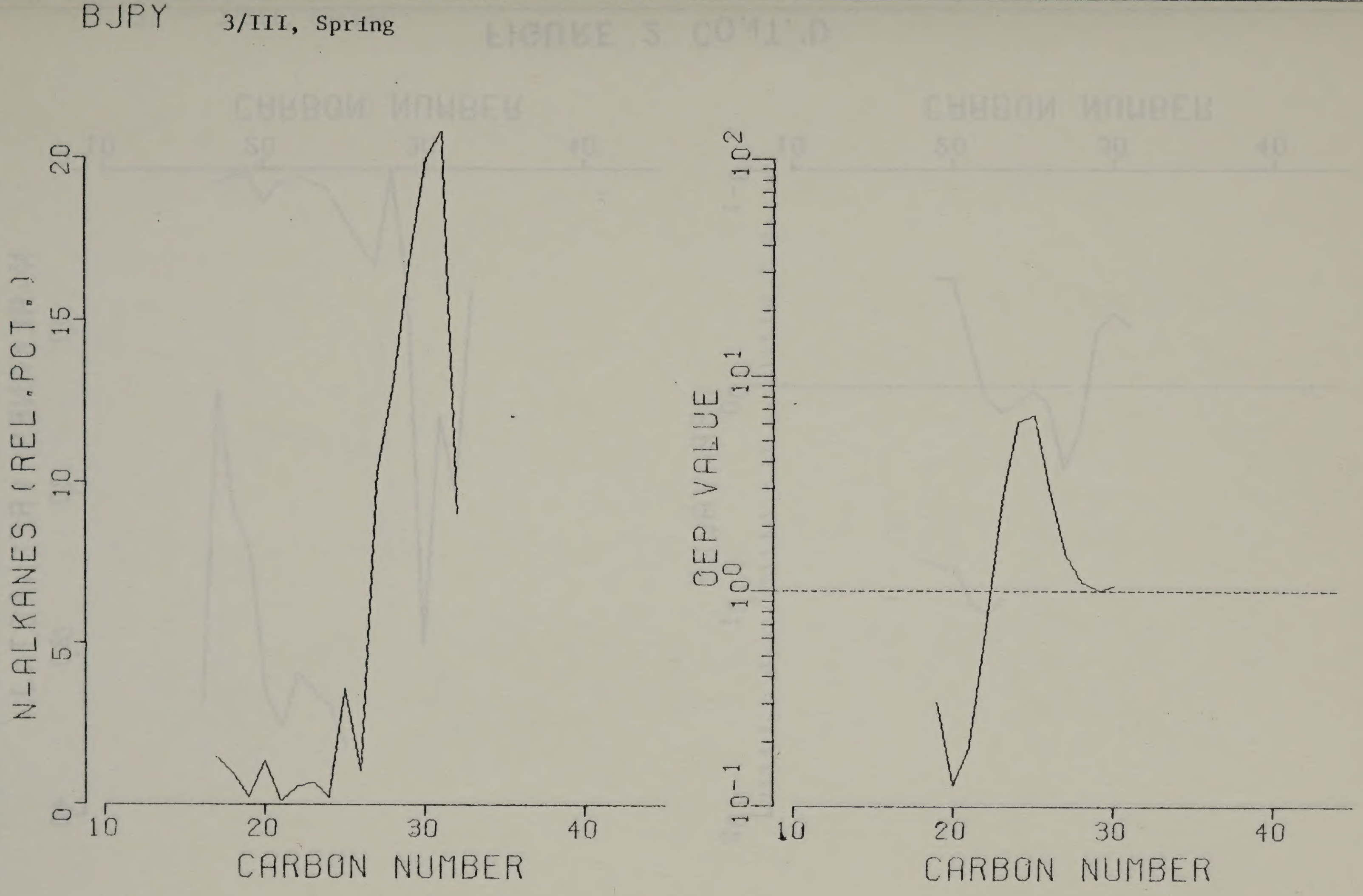

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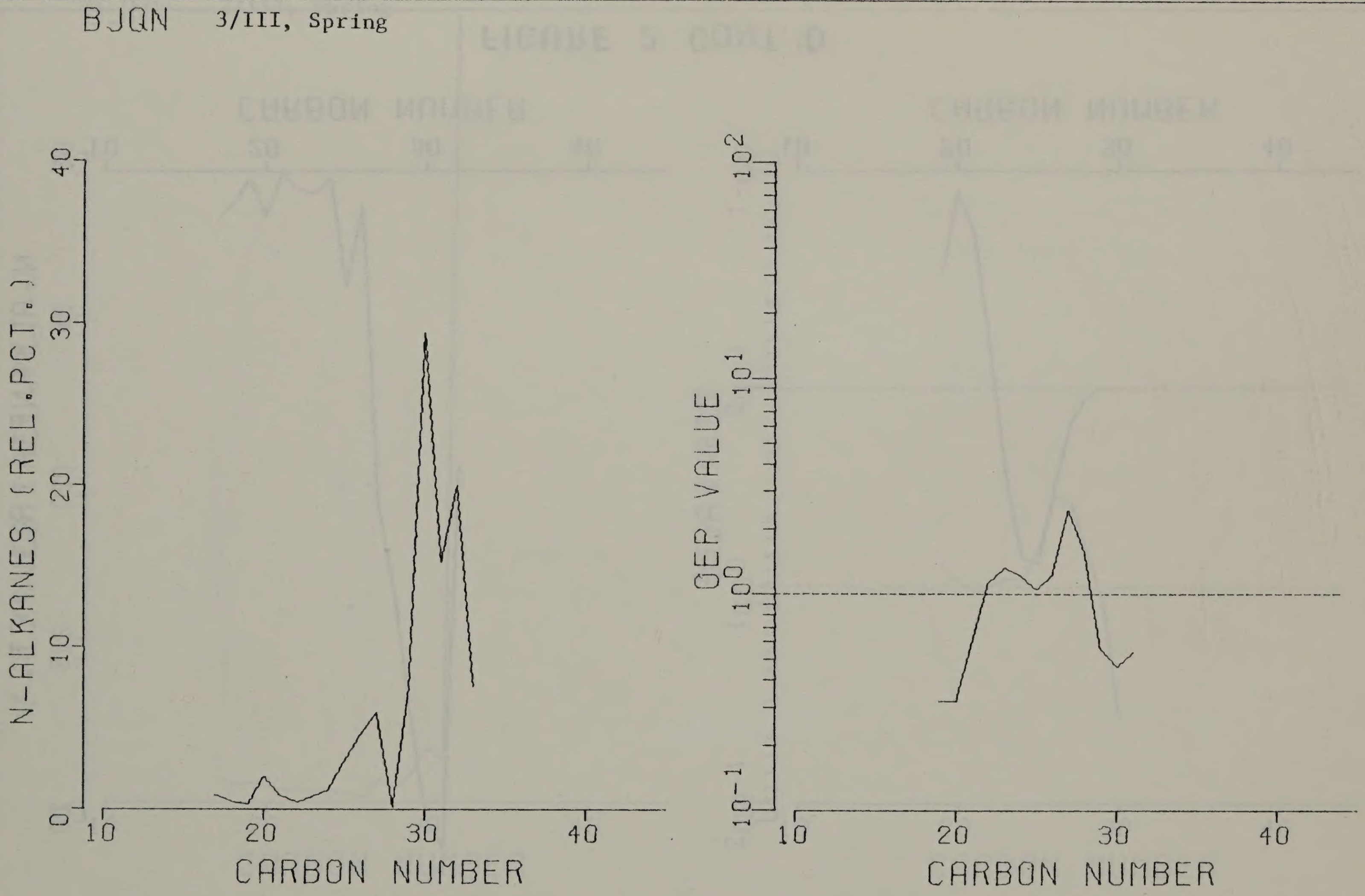

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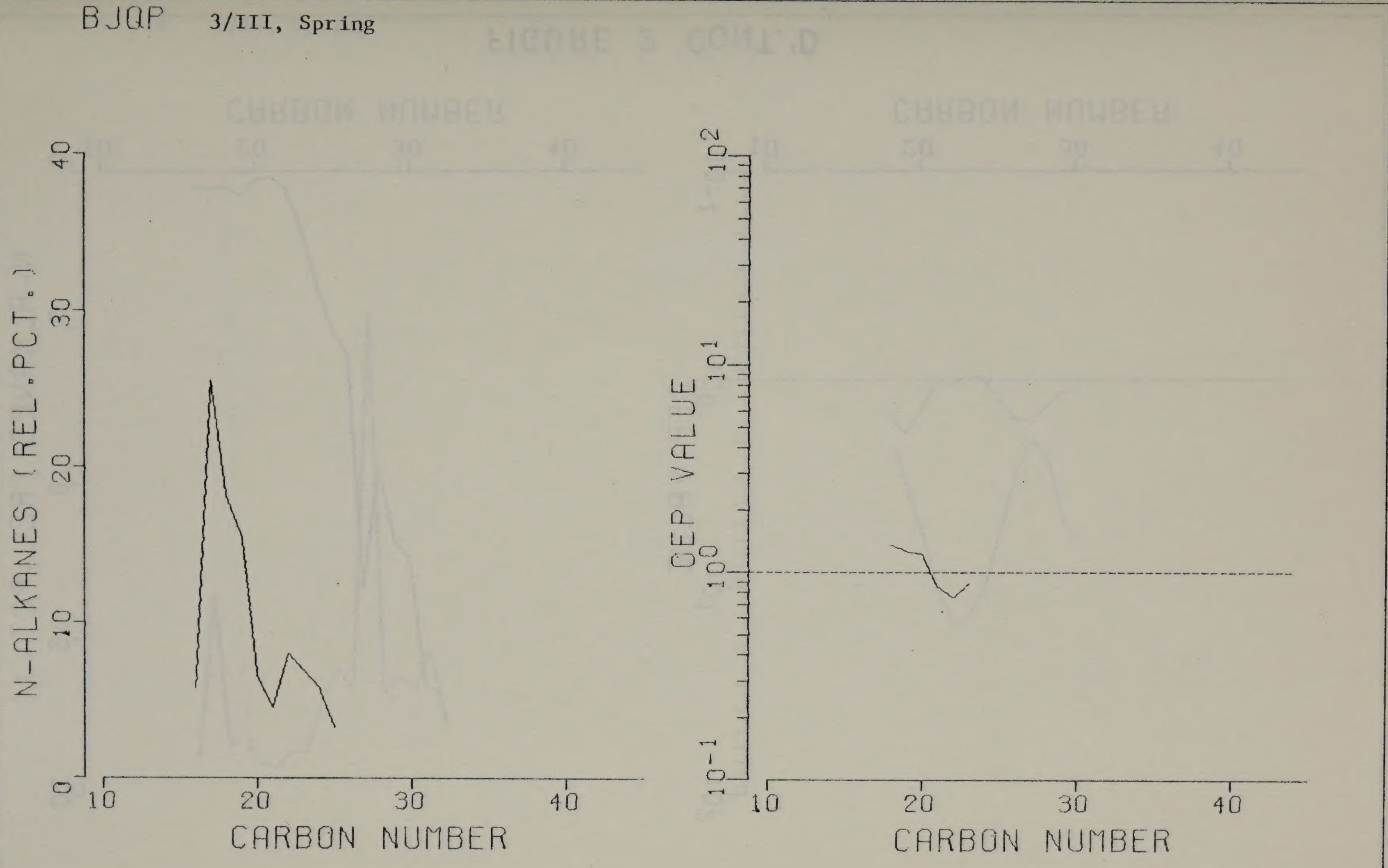

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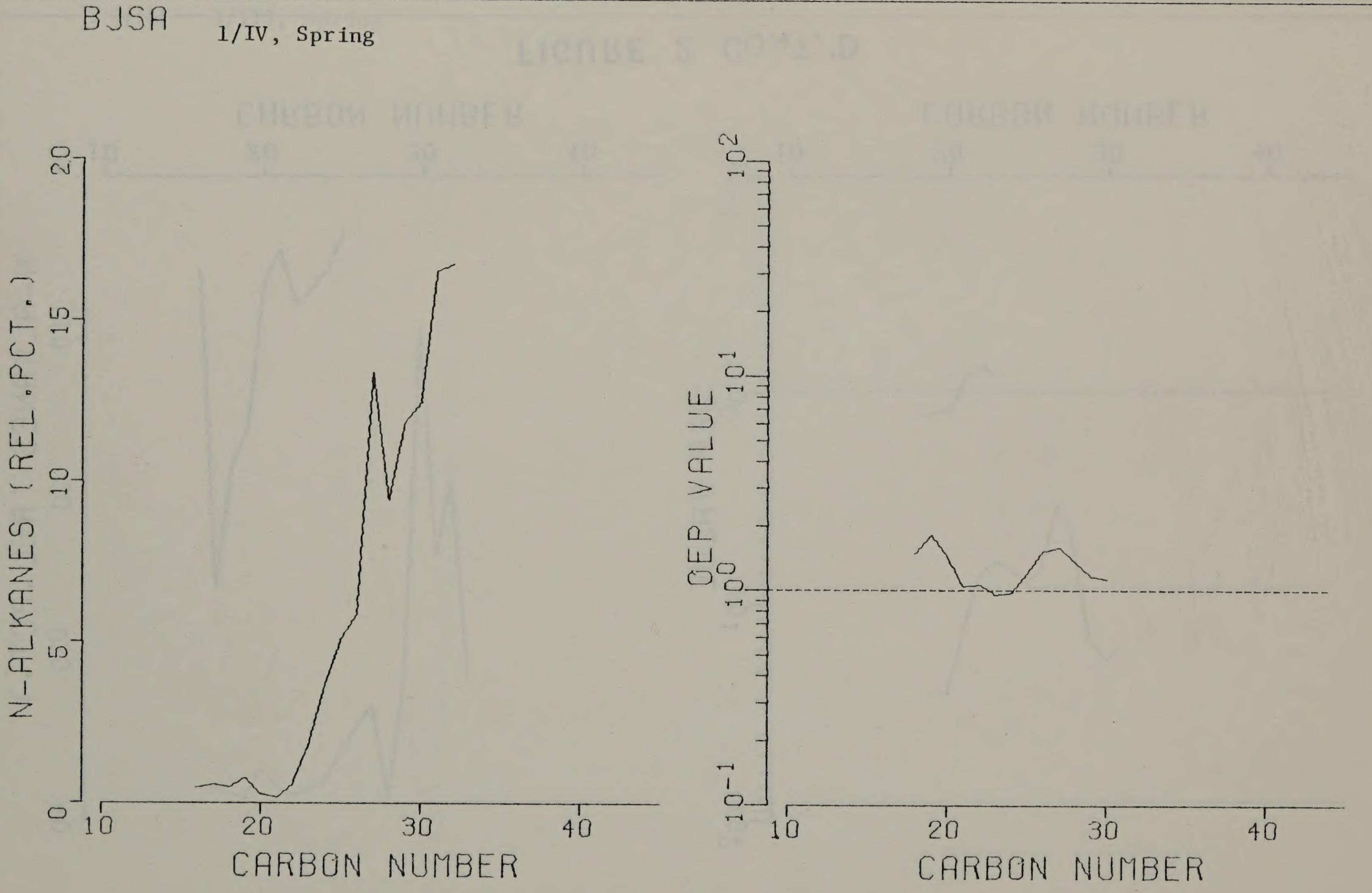

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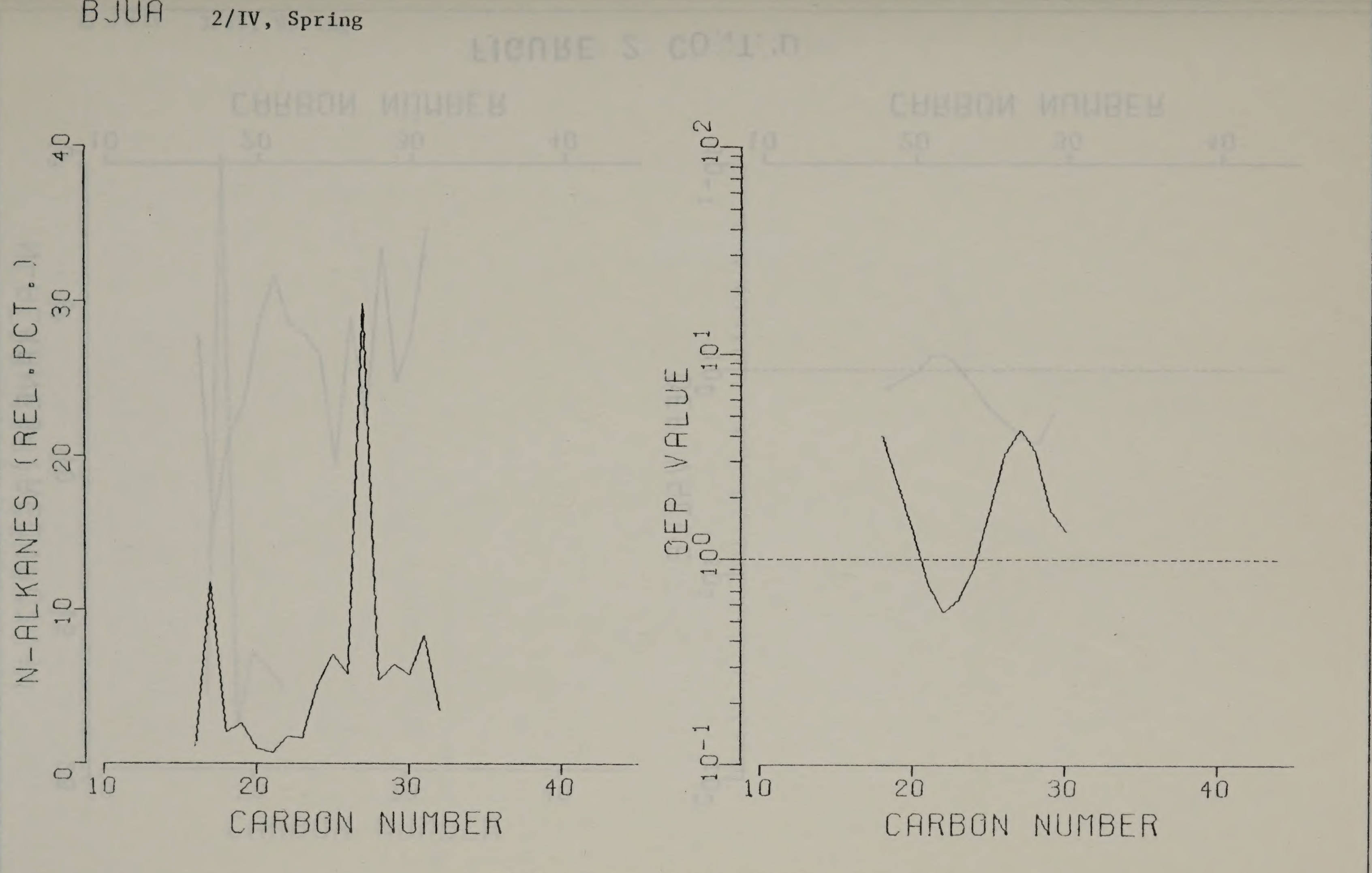

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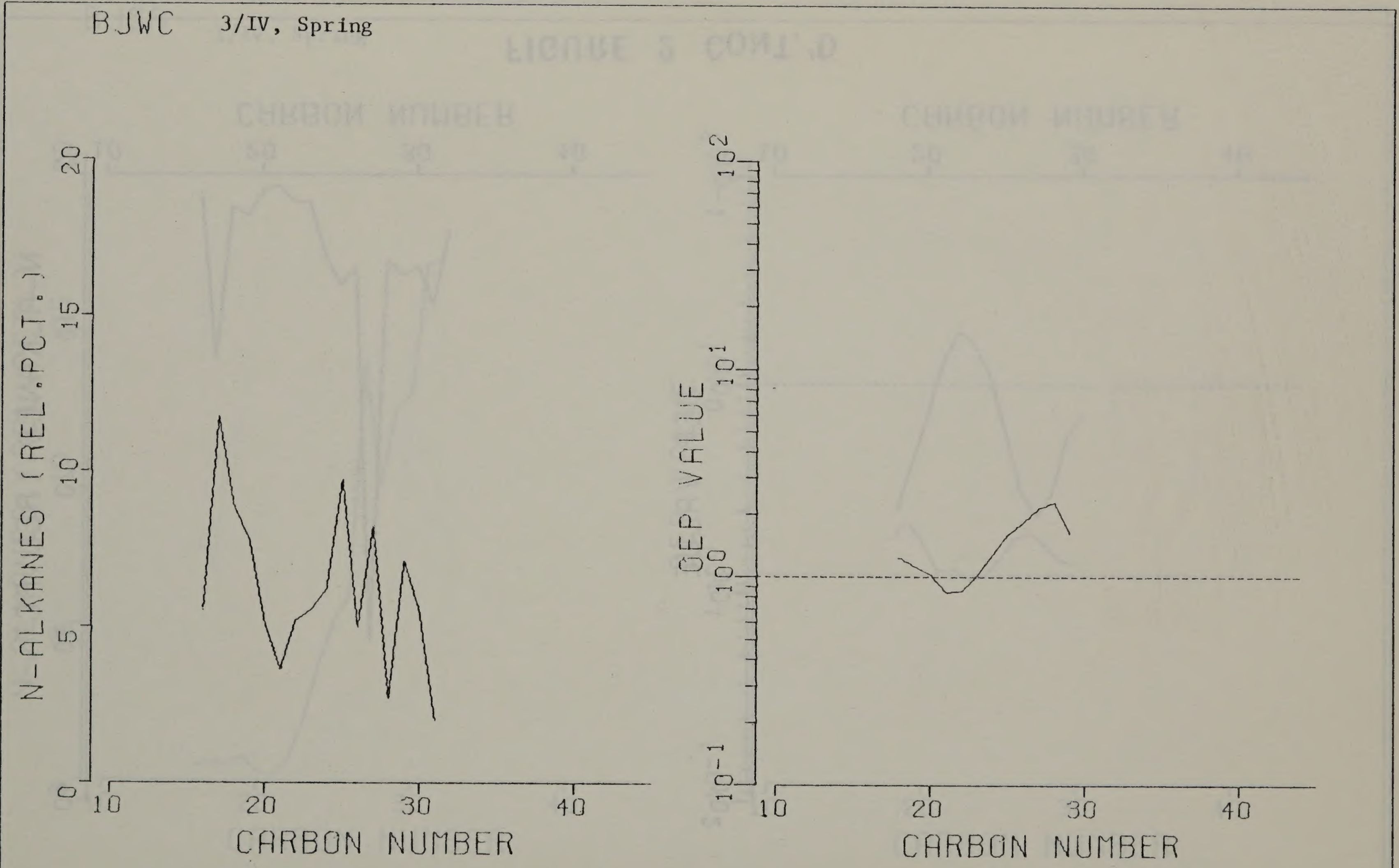

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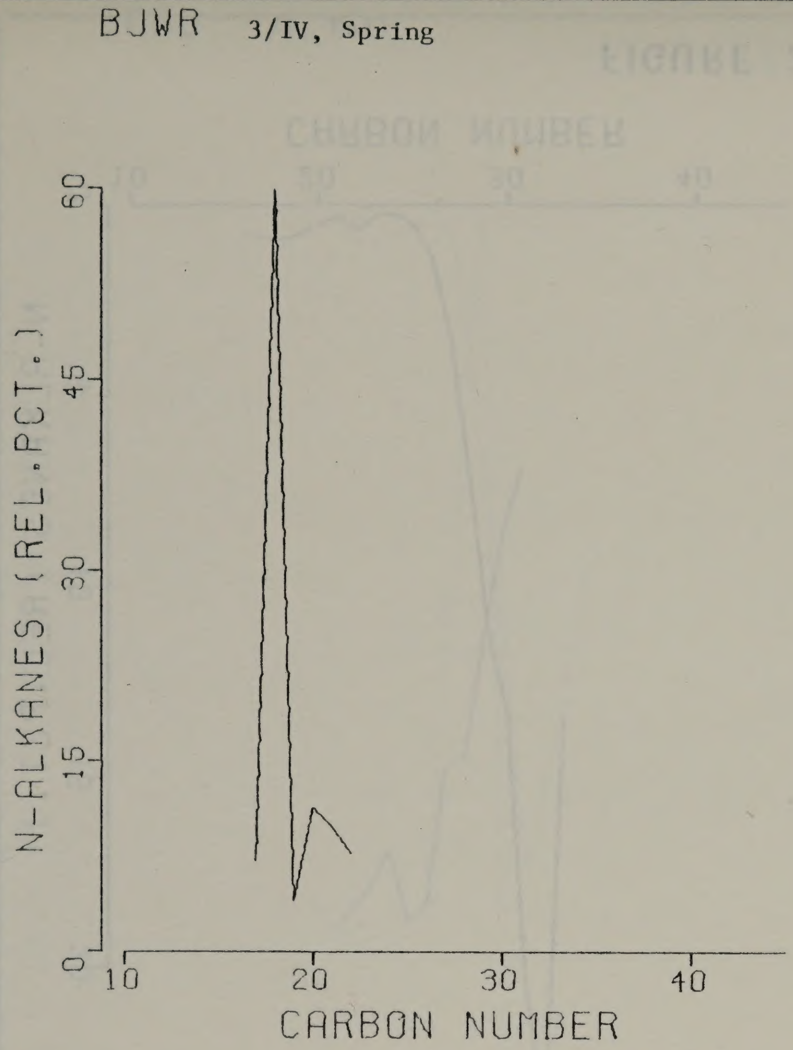

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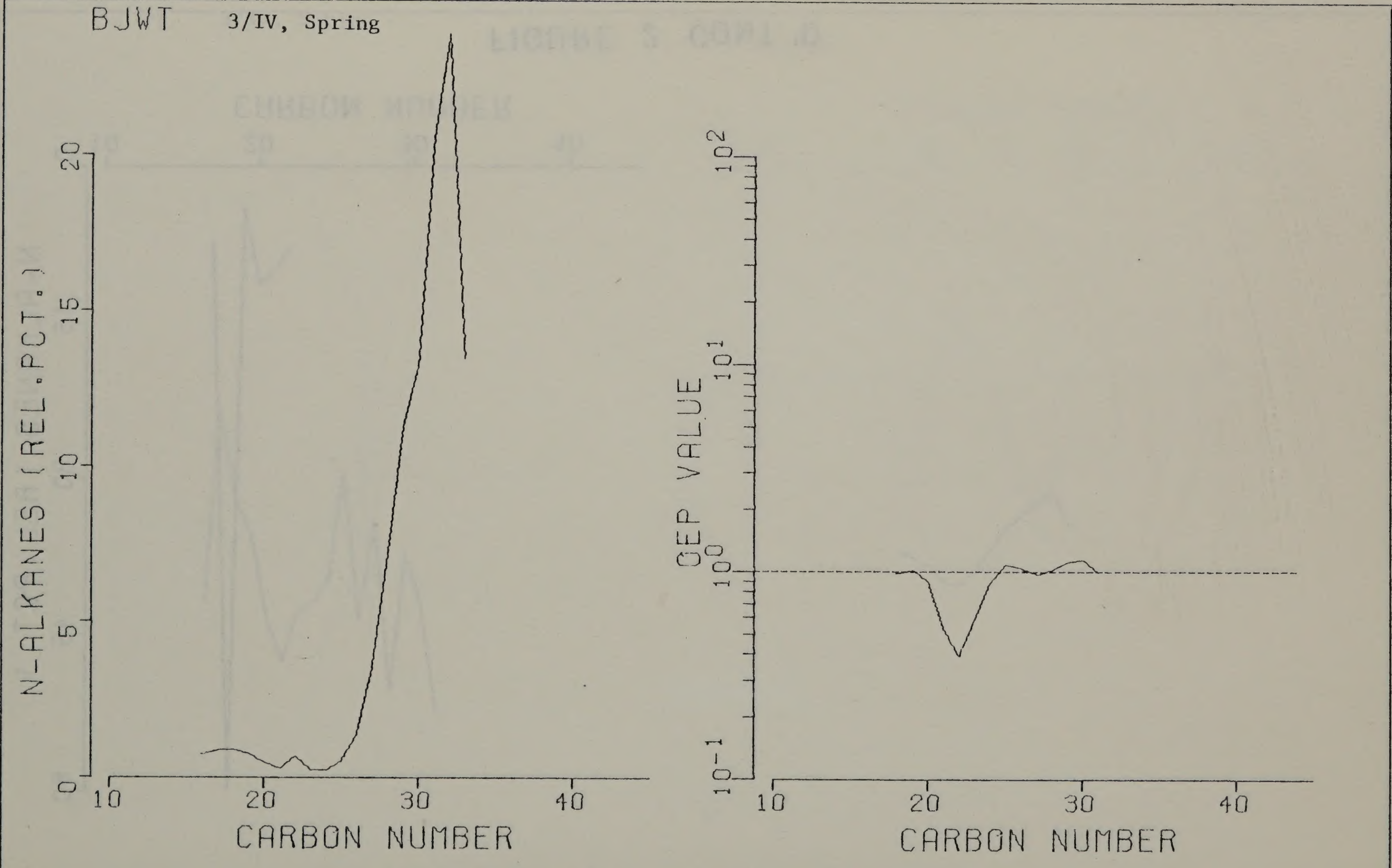

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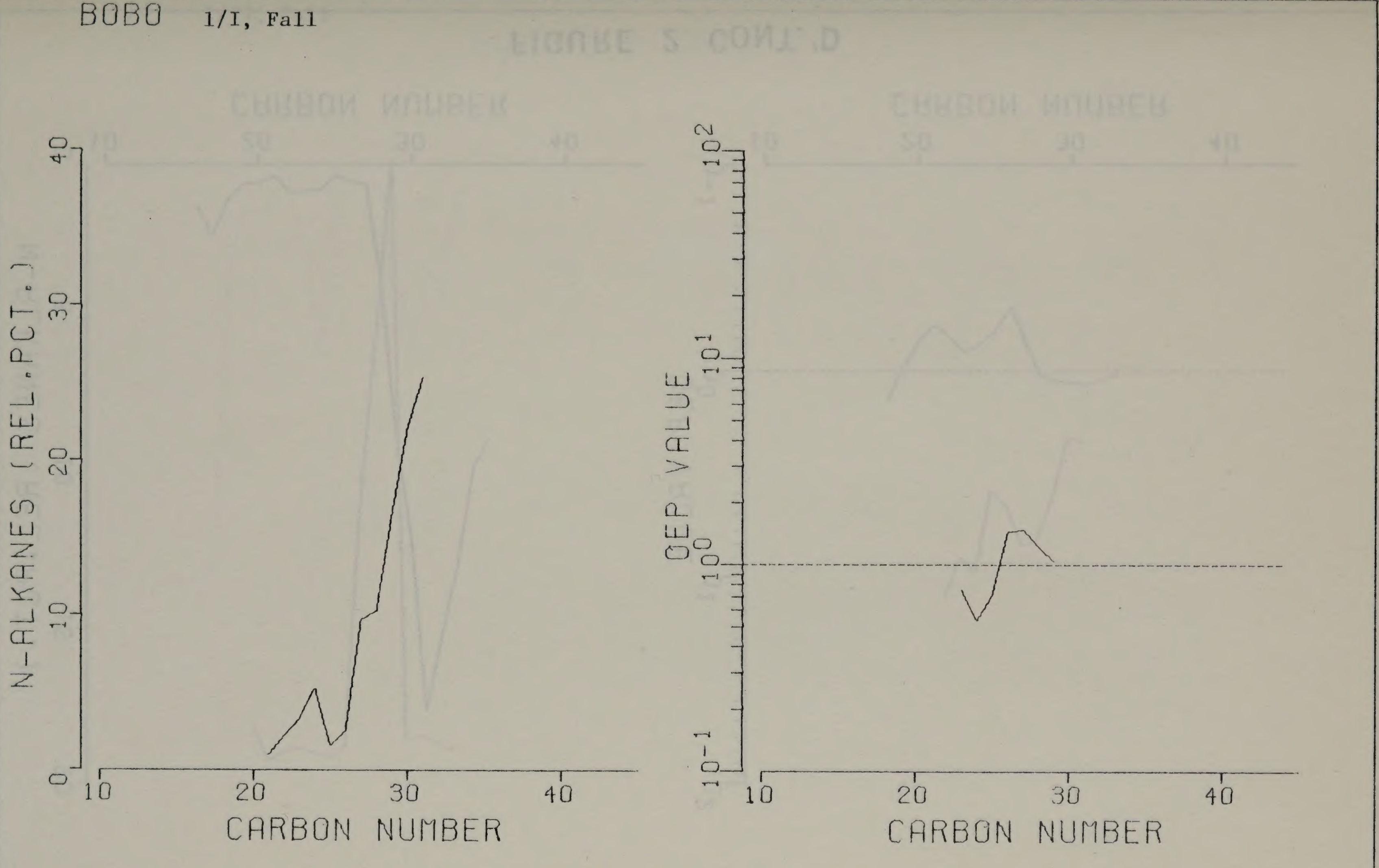

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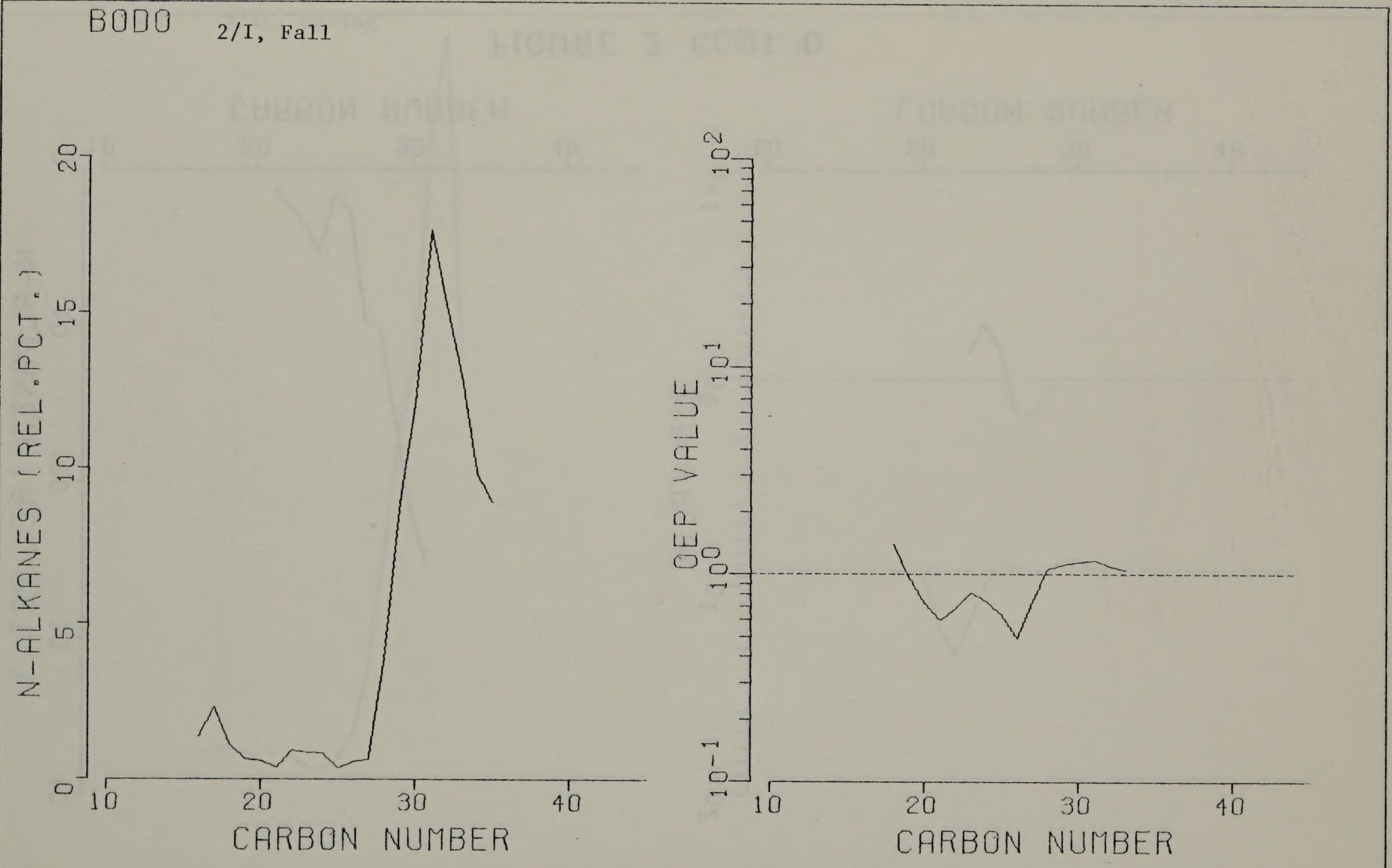

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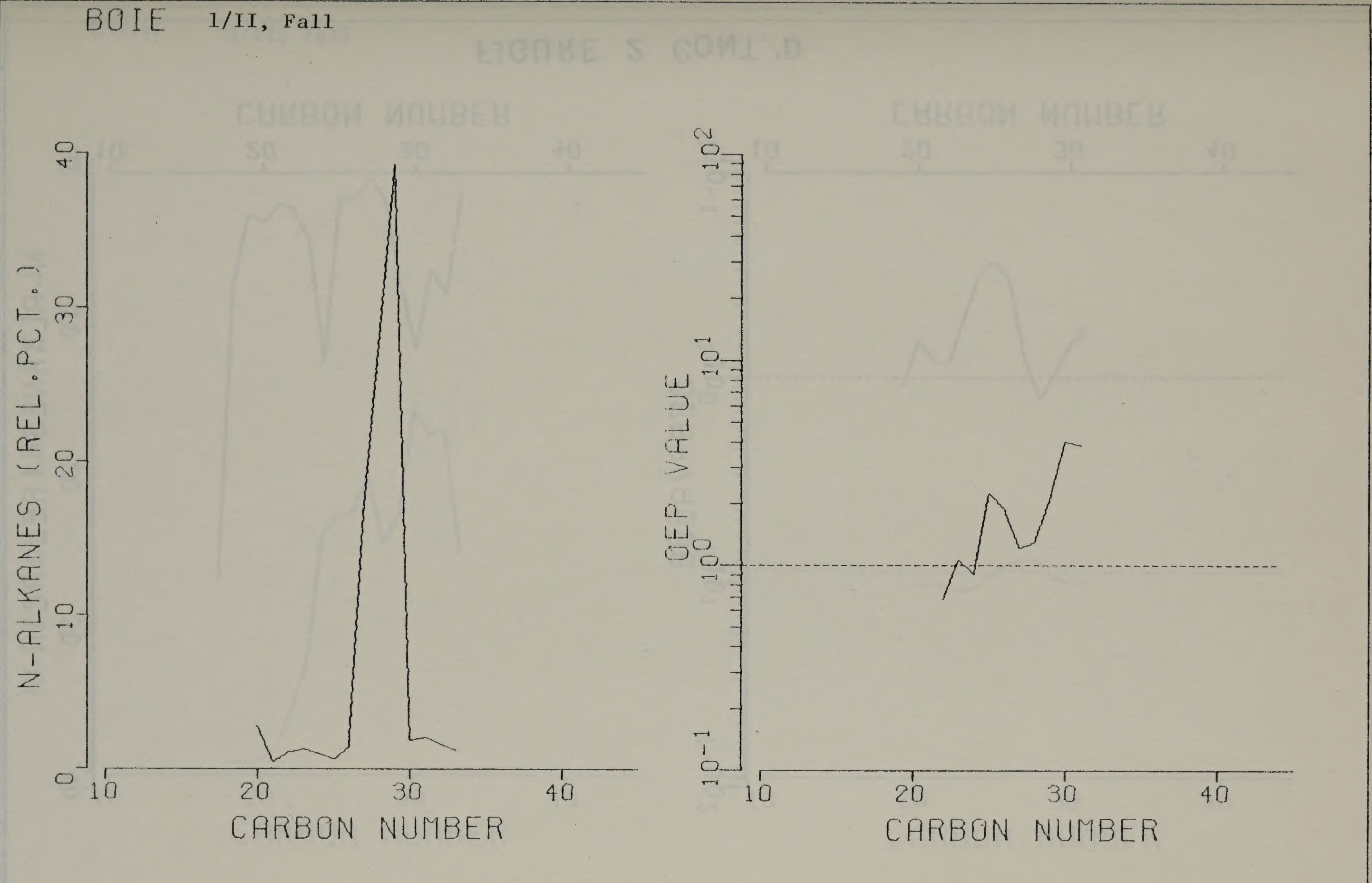

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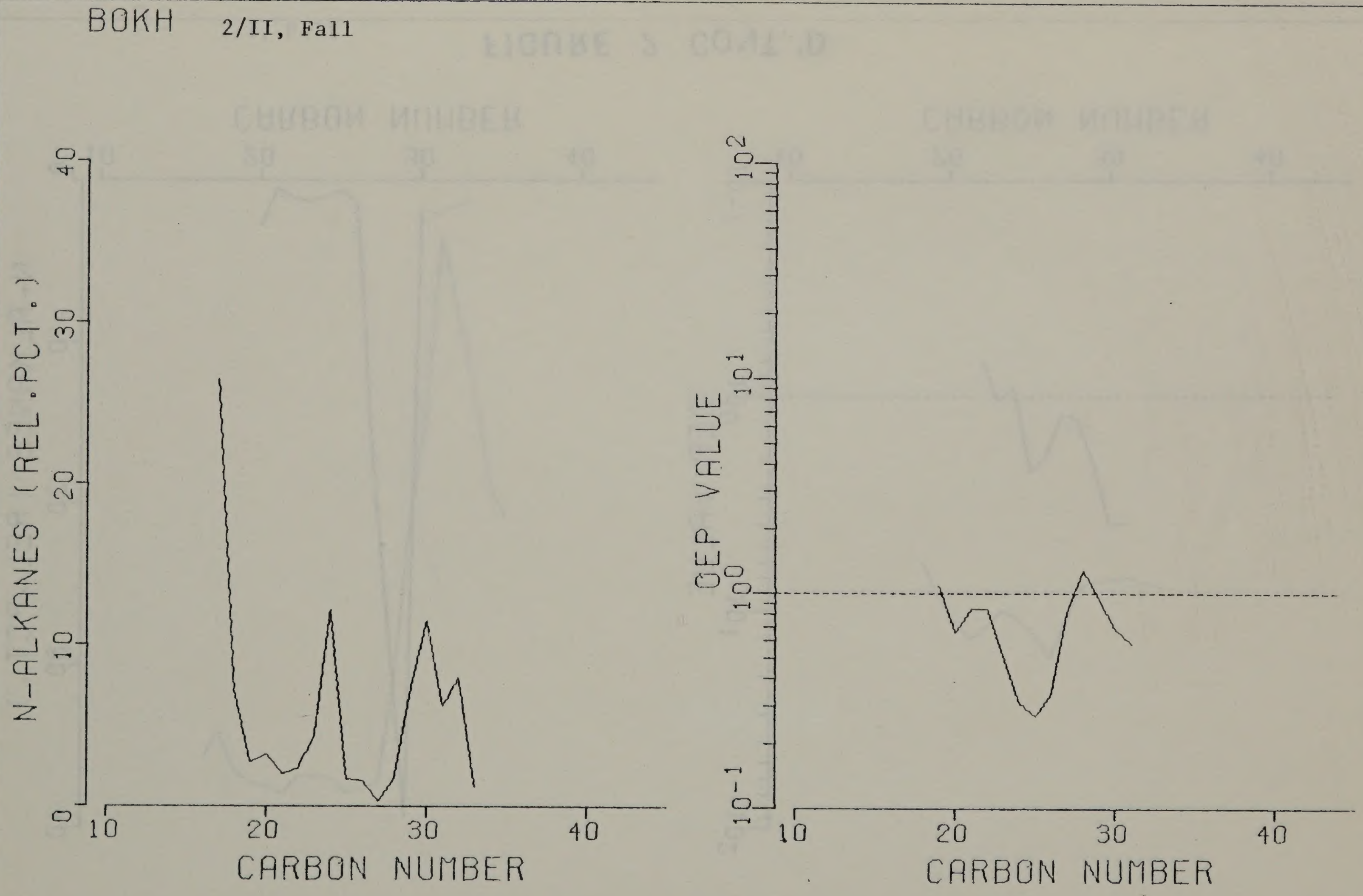

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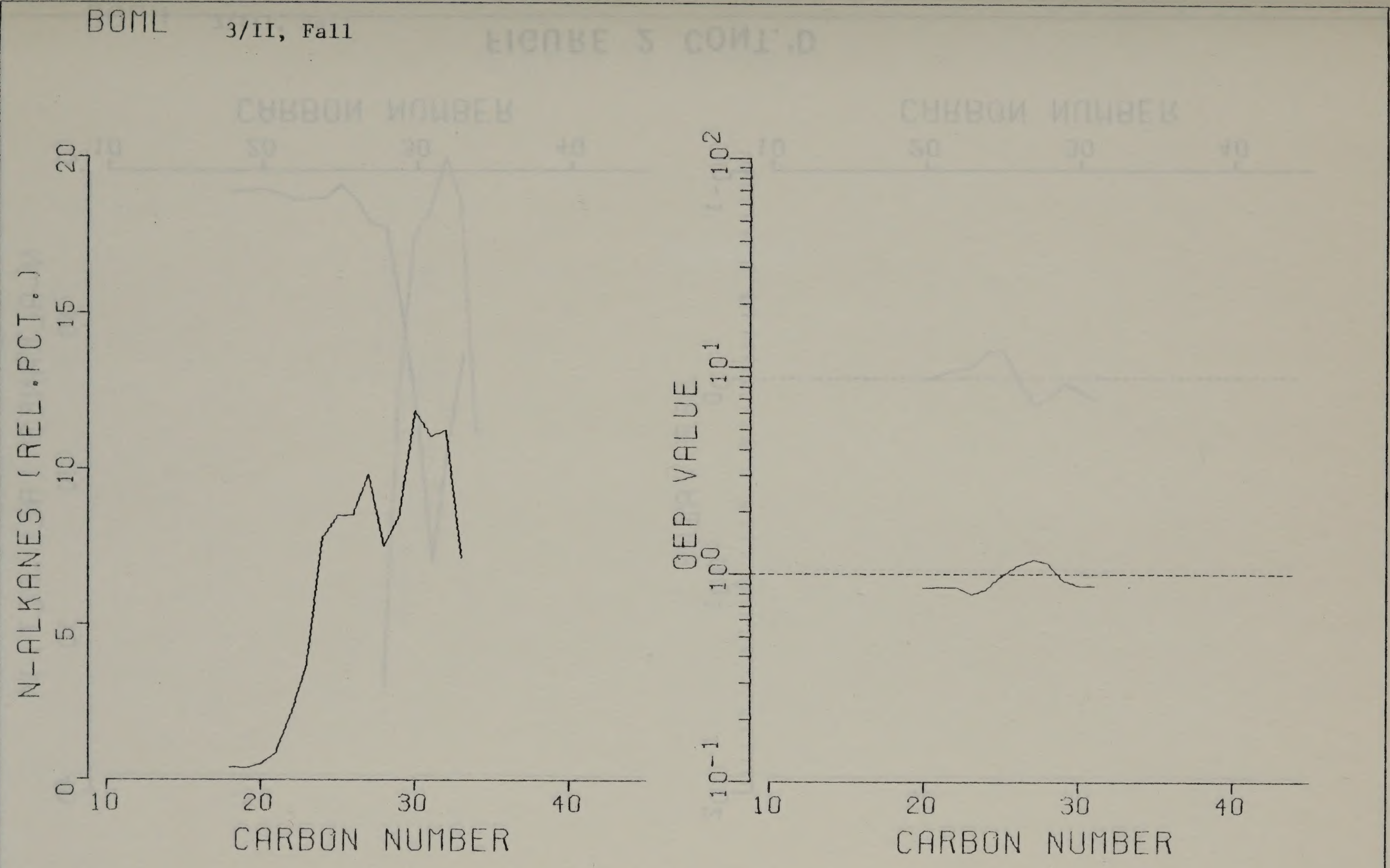

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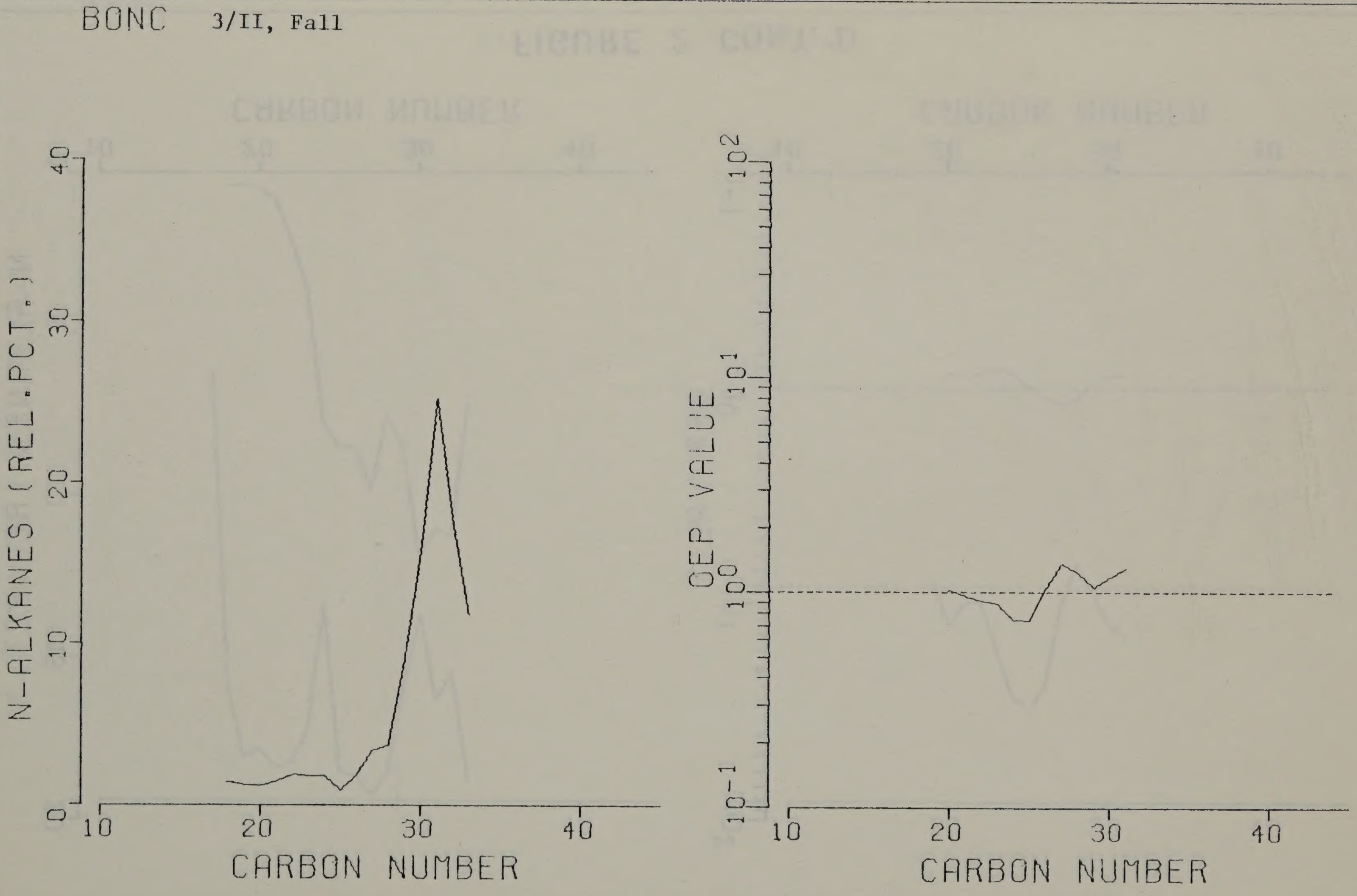

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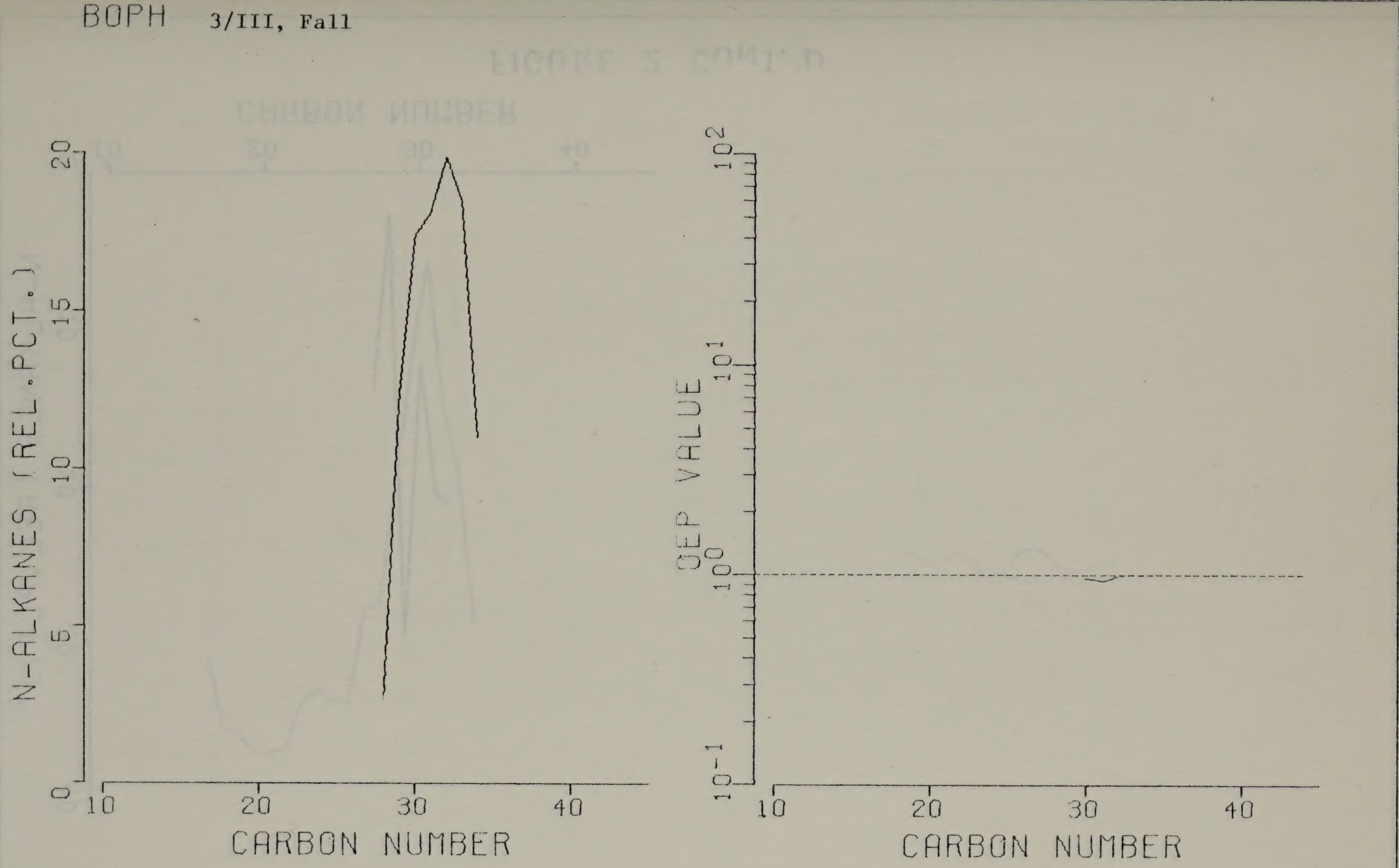

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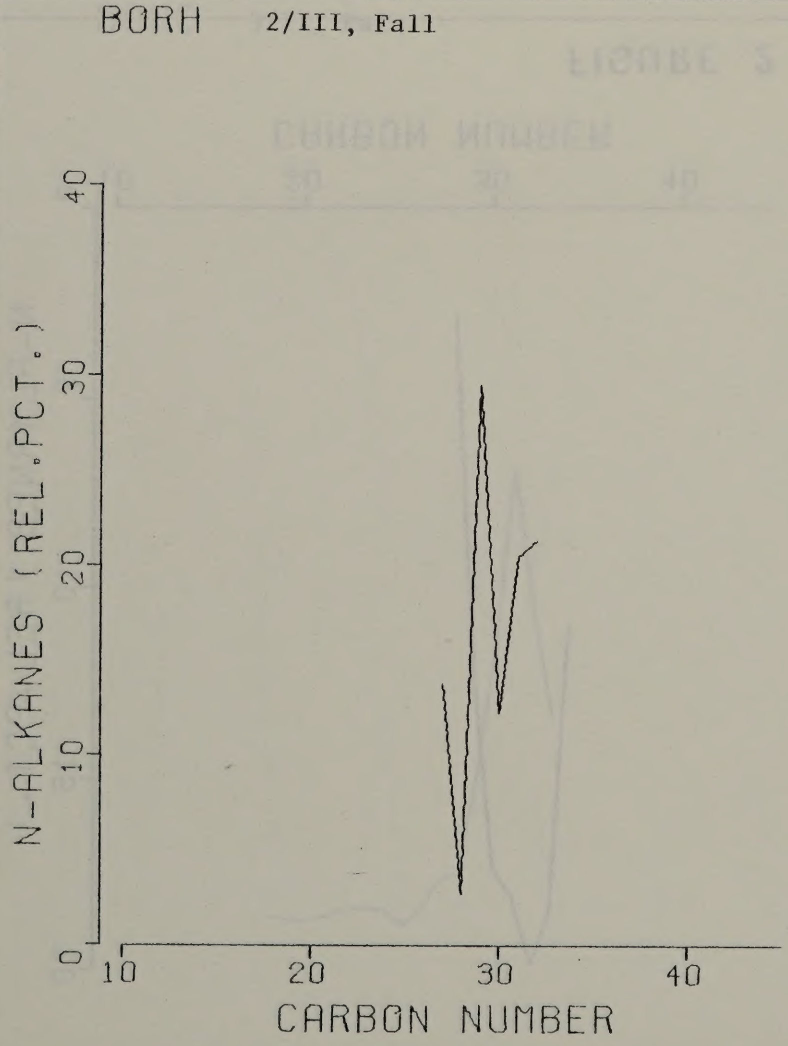

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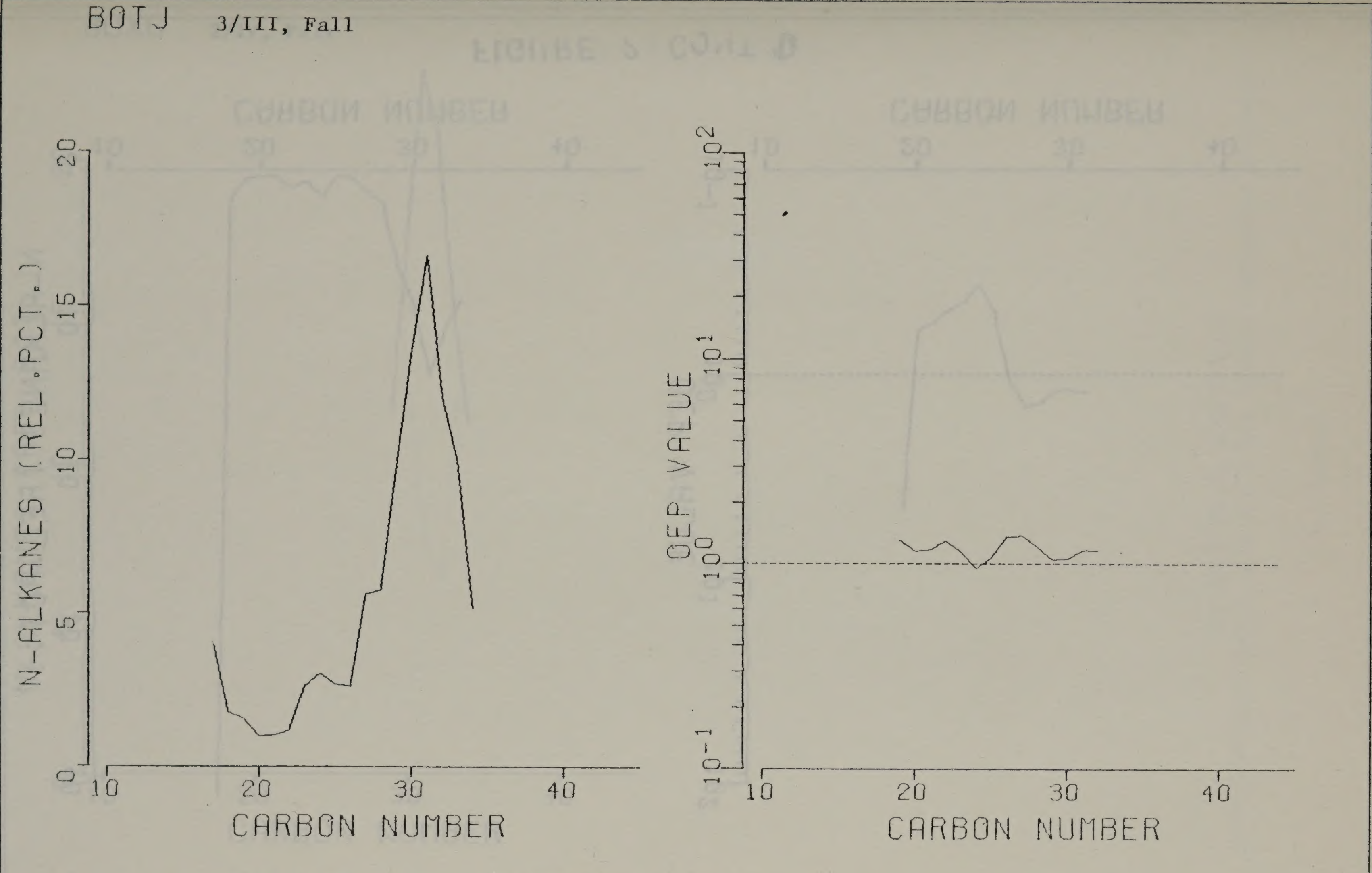

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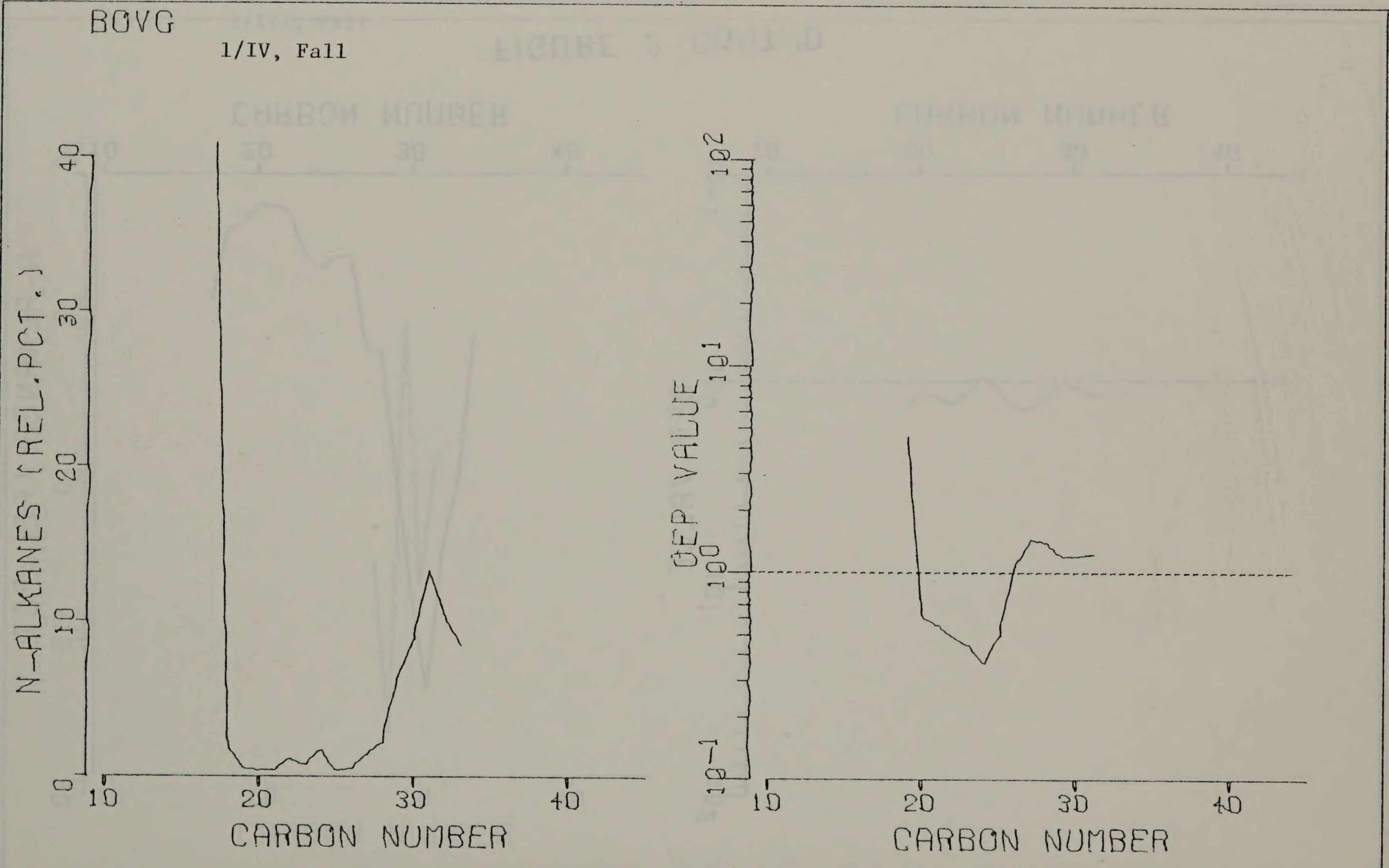

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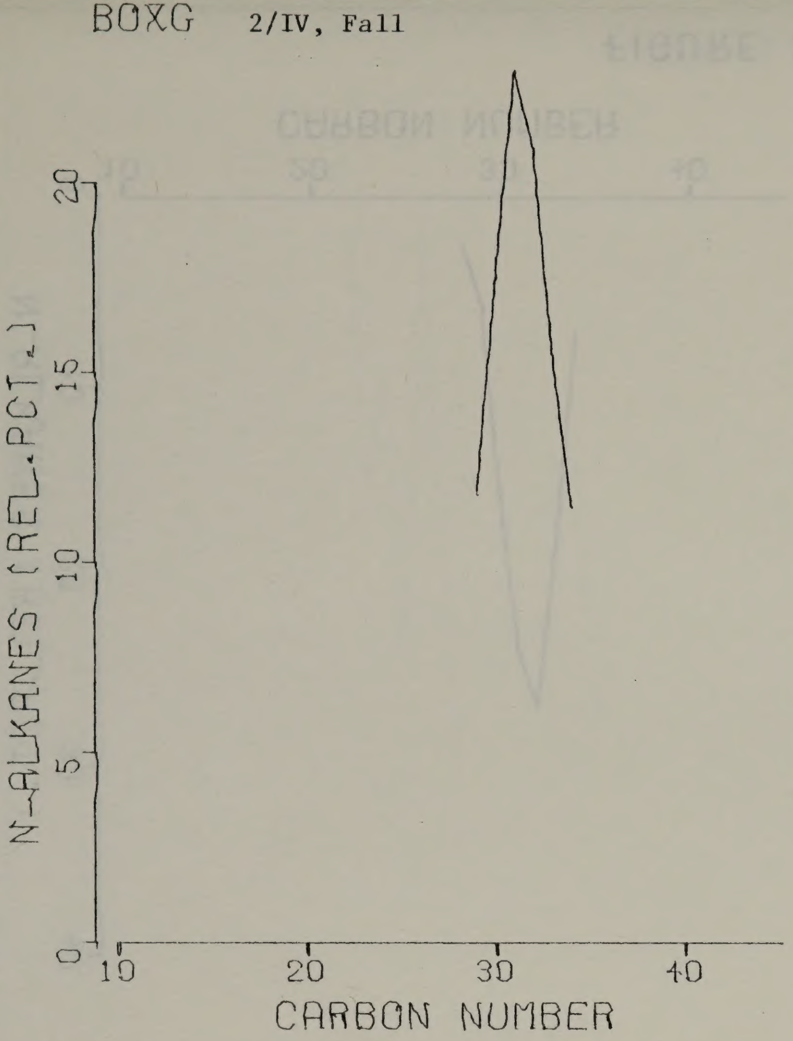

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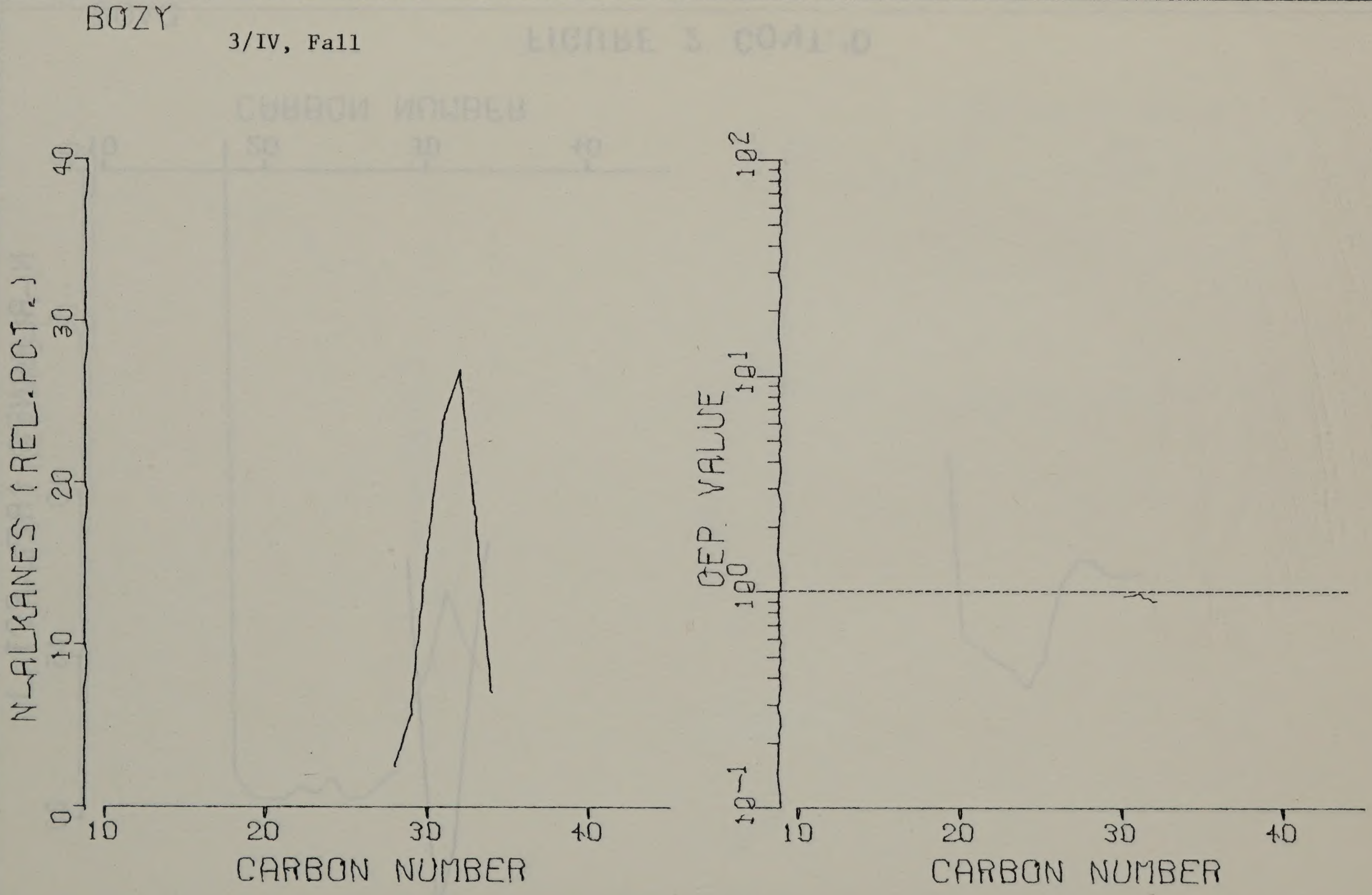
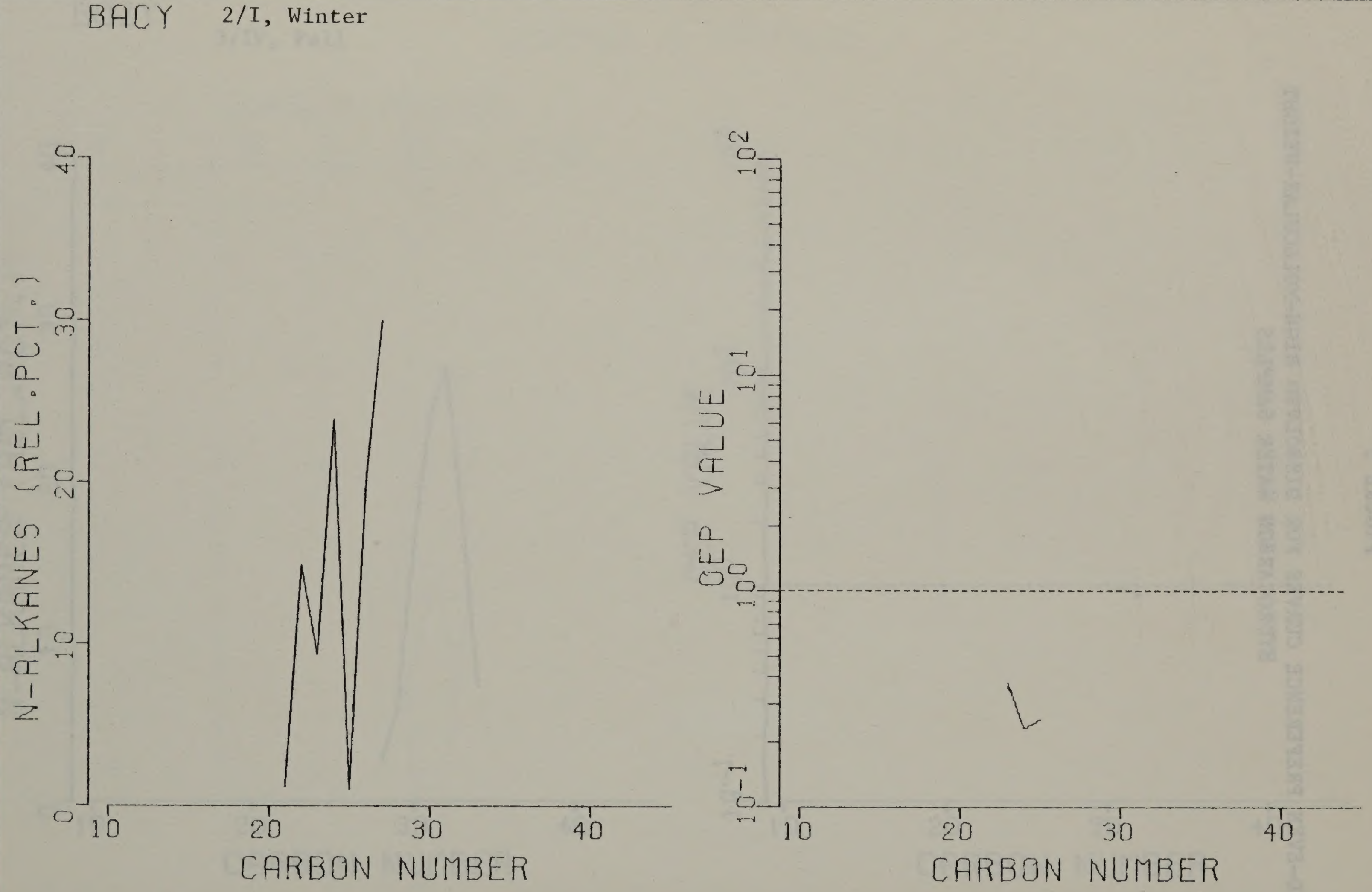


FIGURE 2 CONT.'D

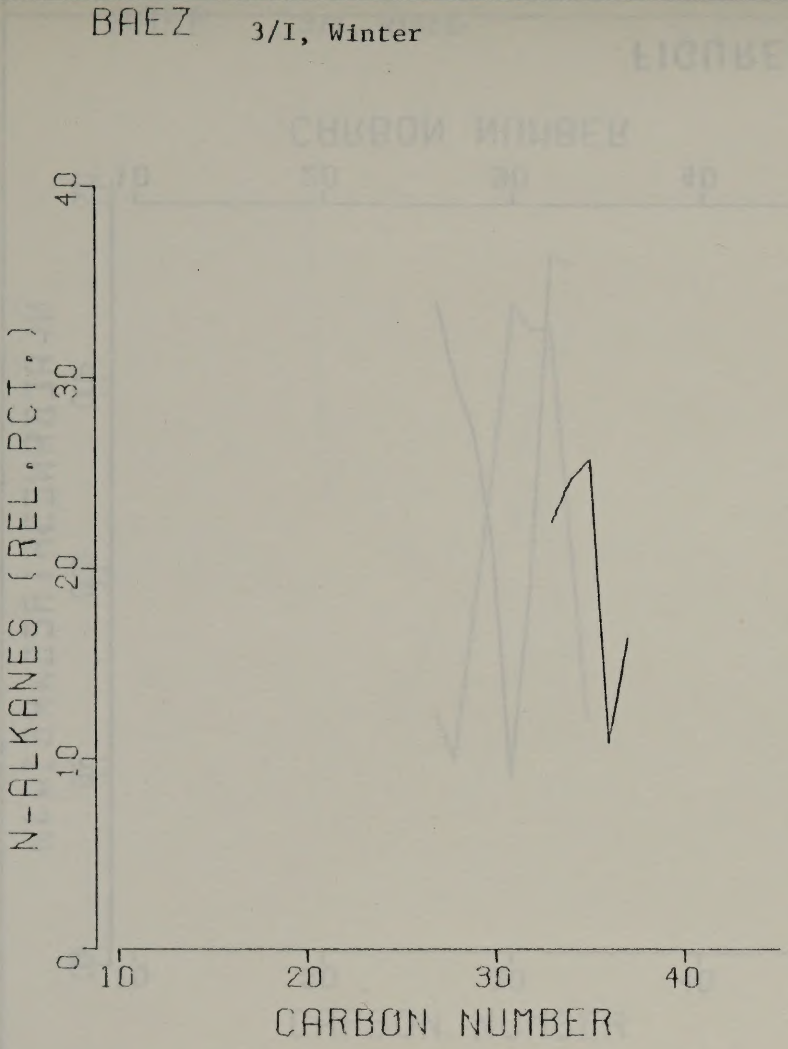
FIGURE 3

ODD-EVEN PREFERENCE CURVES FOR DISSOLVED HIGH-MOLECULAR-WEIGHT HYDROCARBON WATER SAMPLES



BACY 2/I, Winter

FIGURE 3 CONT.'D



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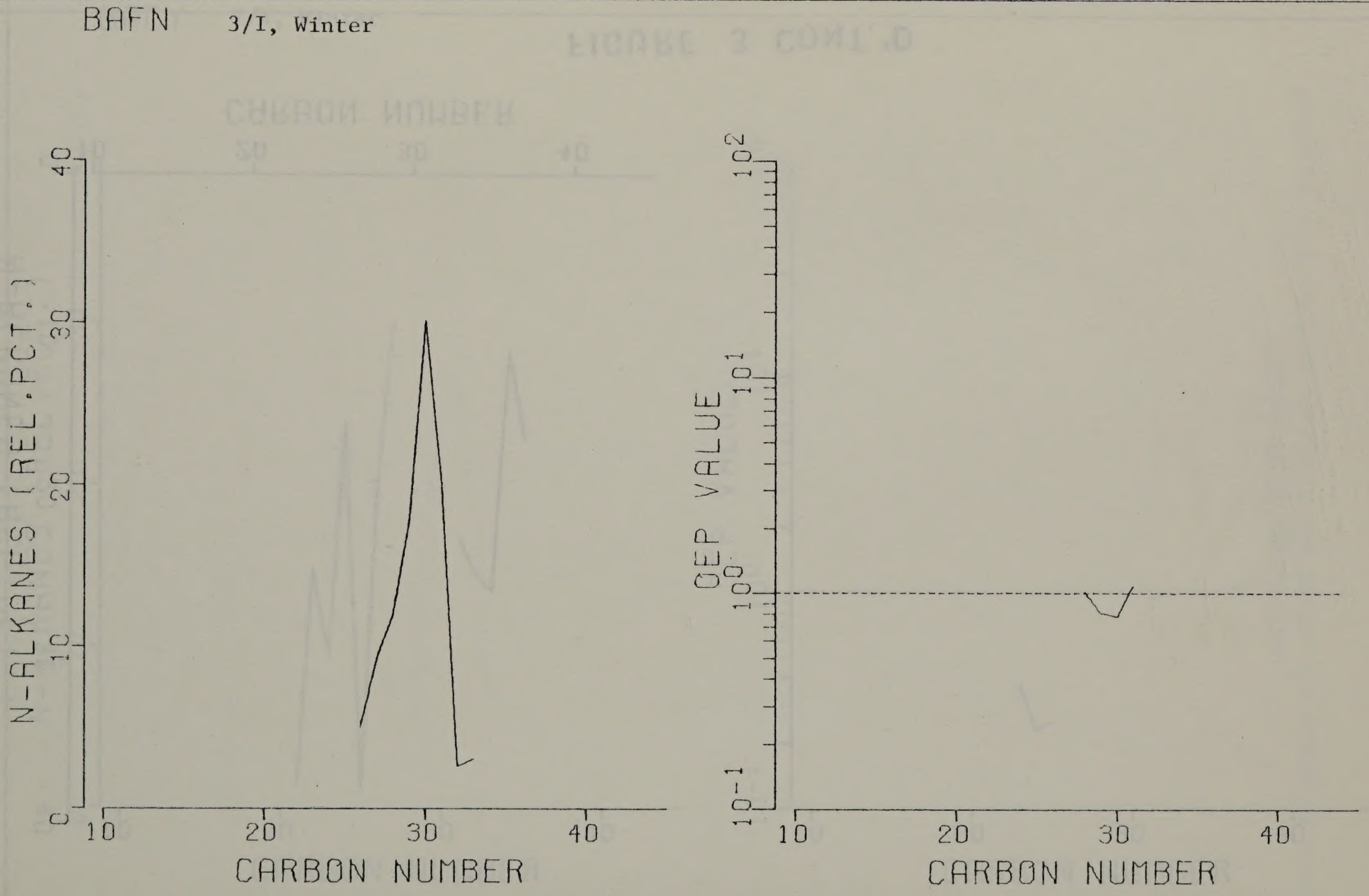

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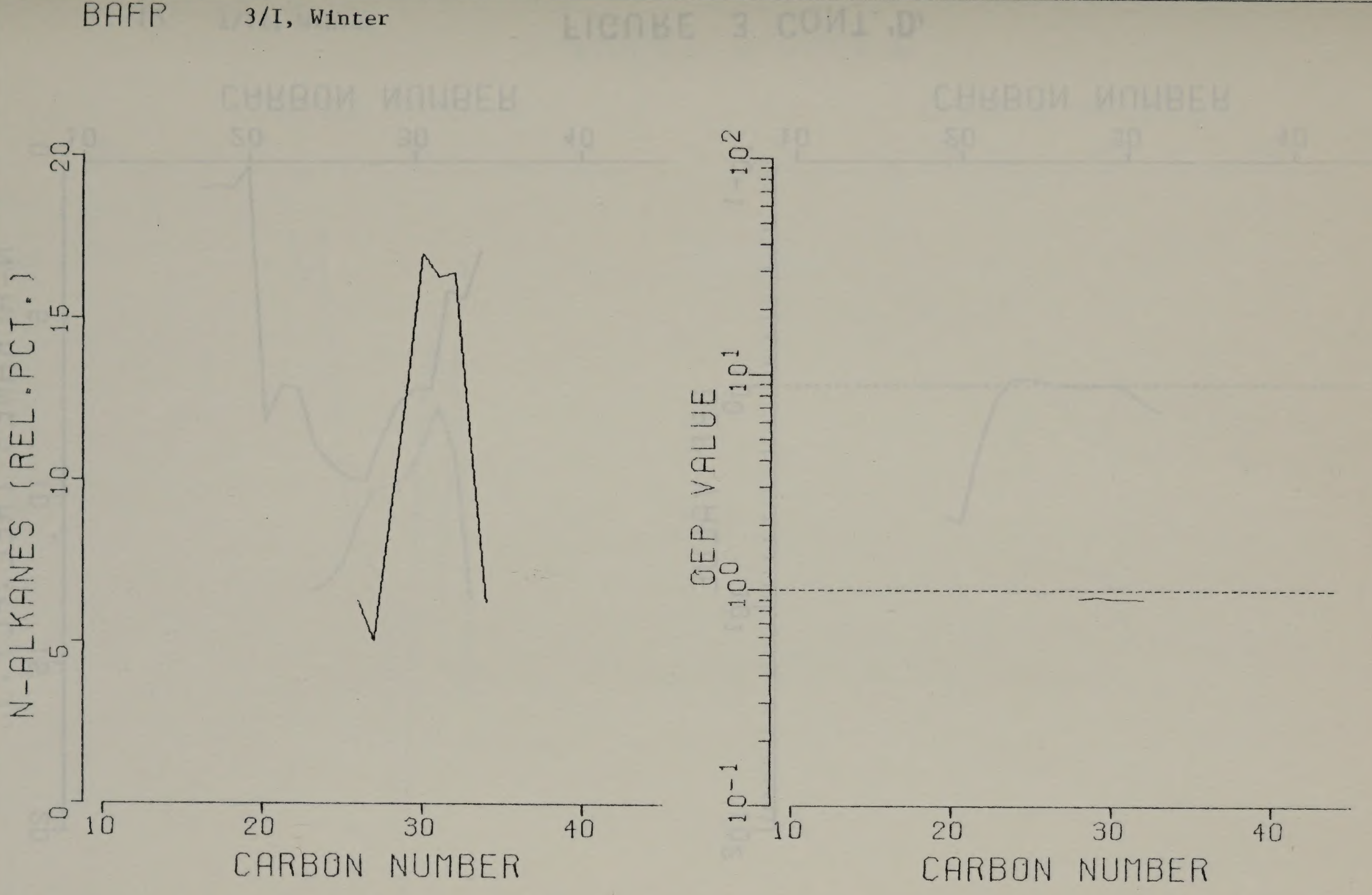

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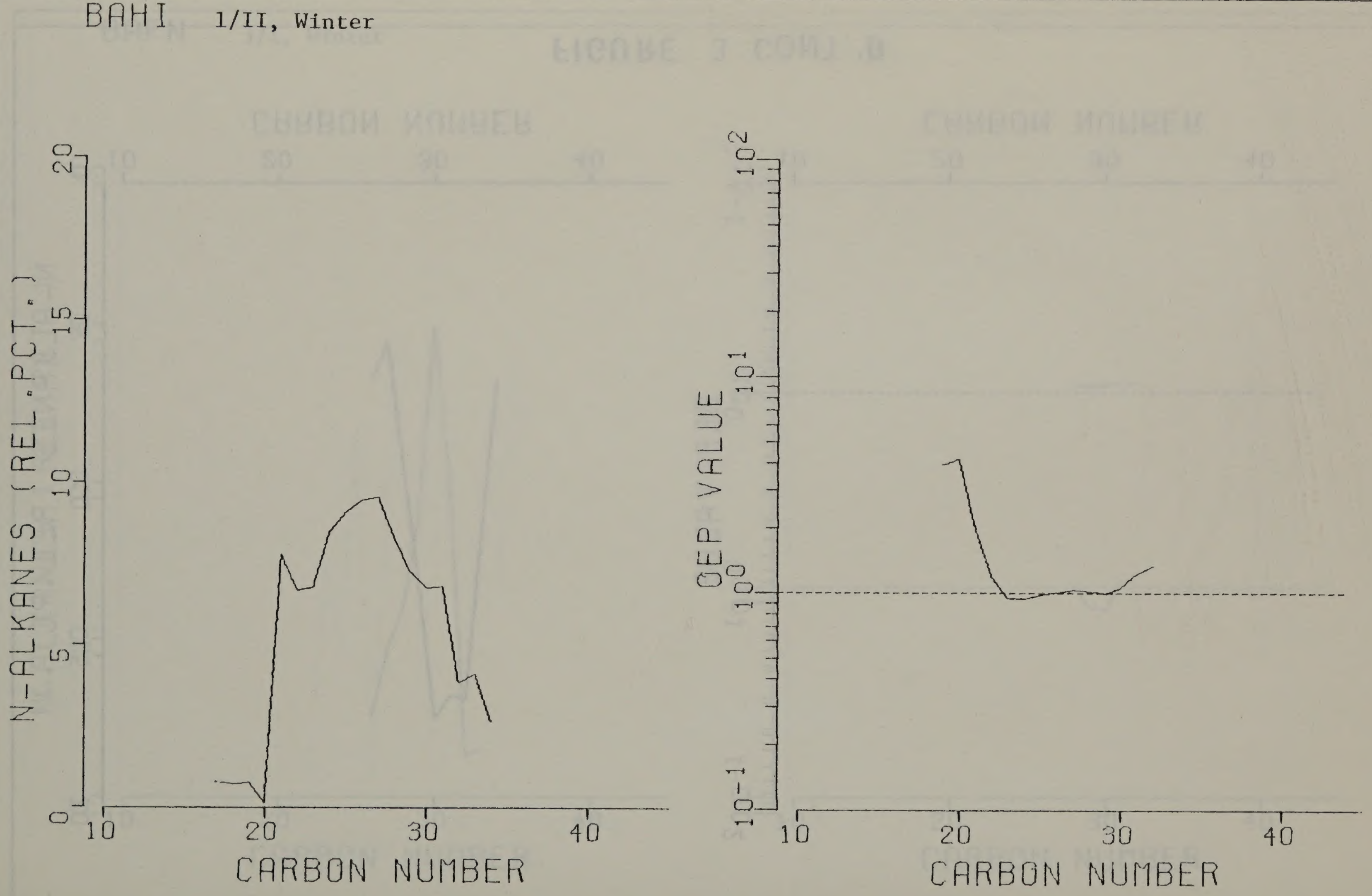

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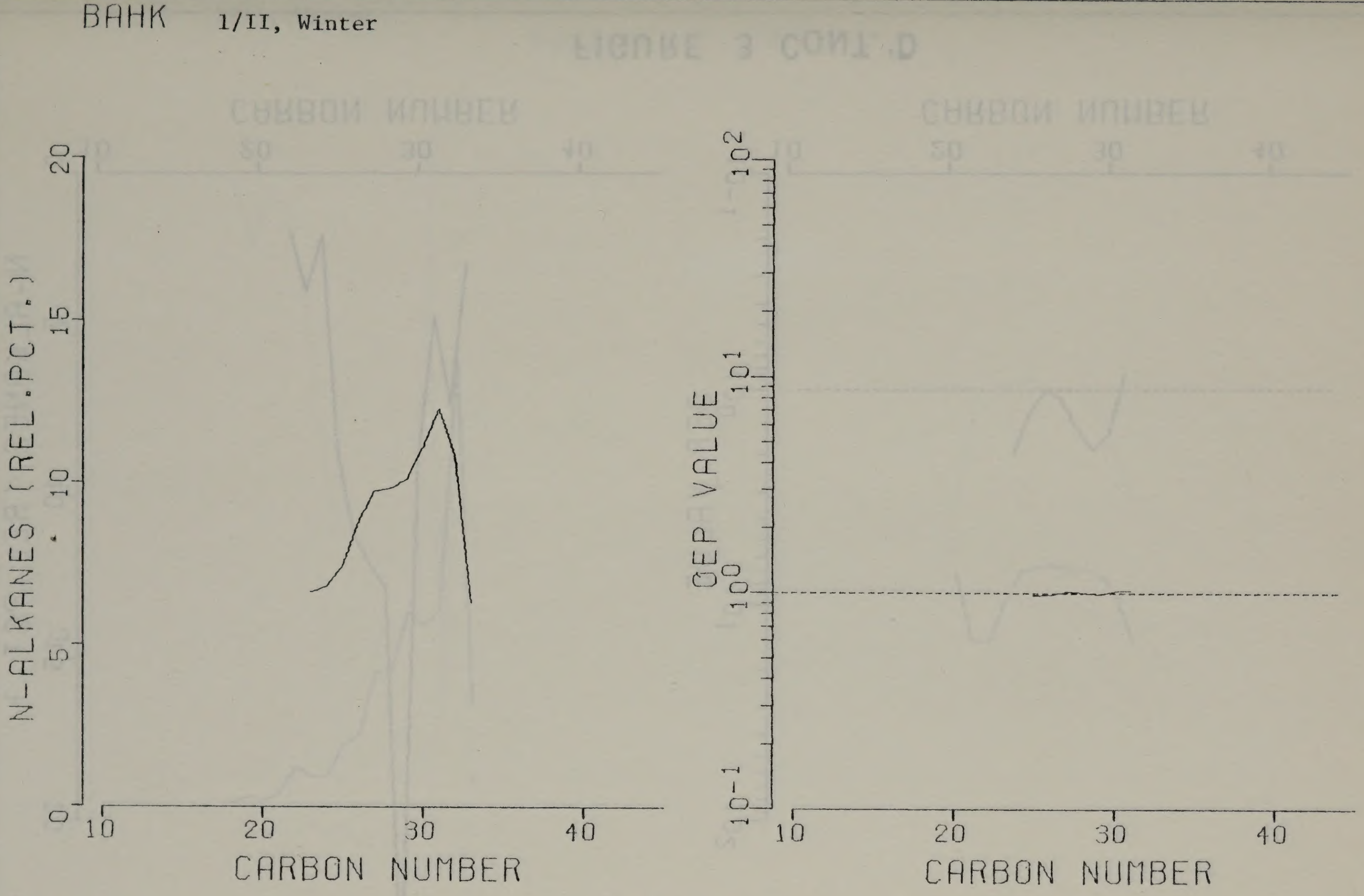

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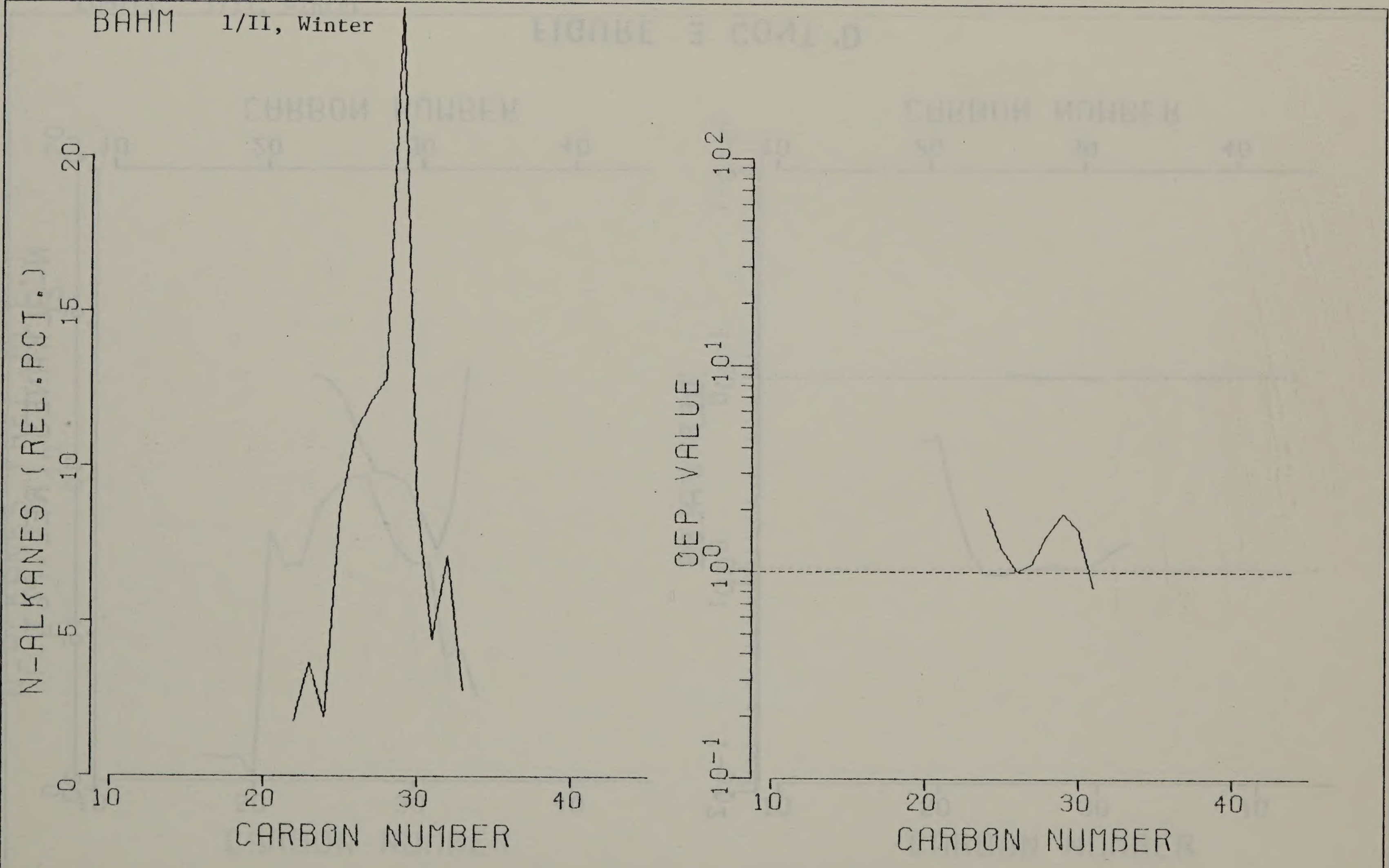

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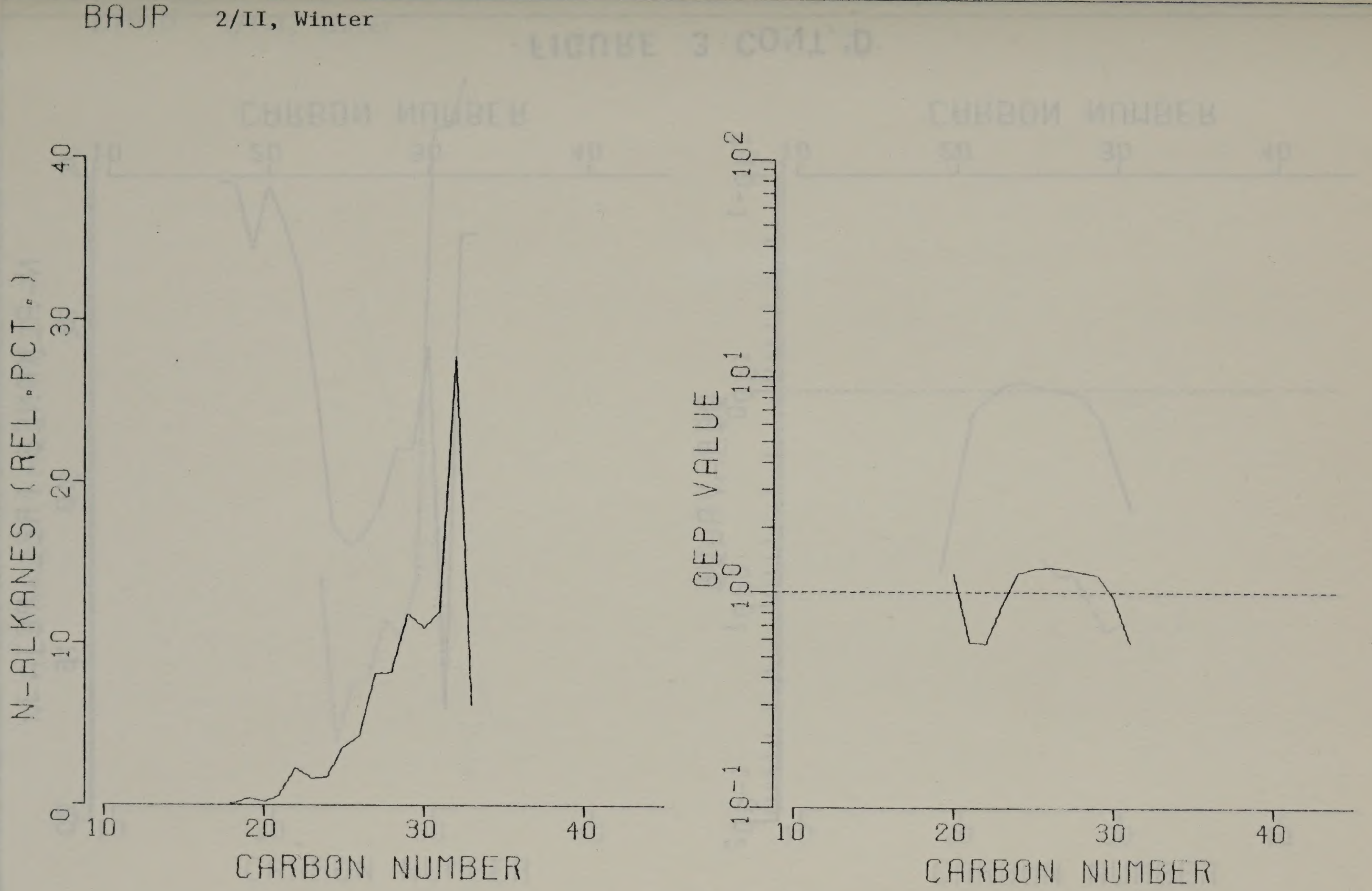

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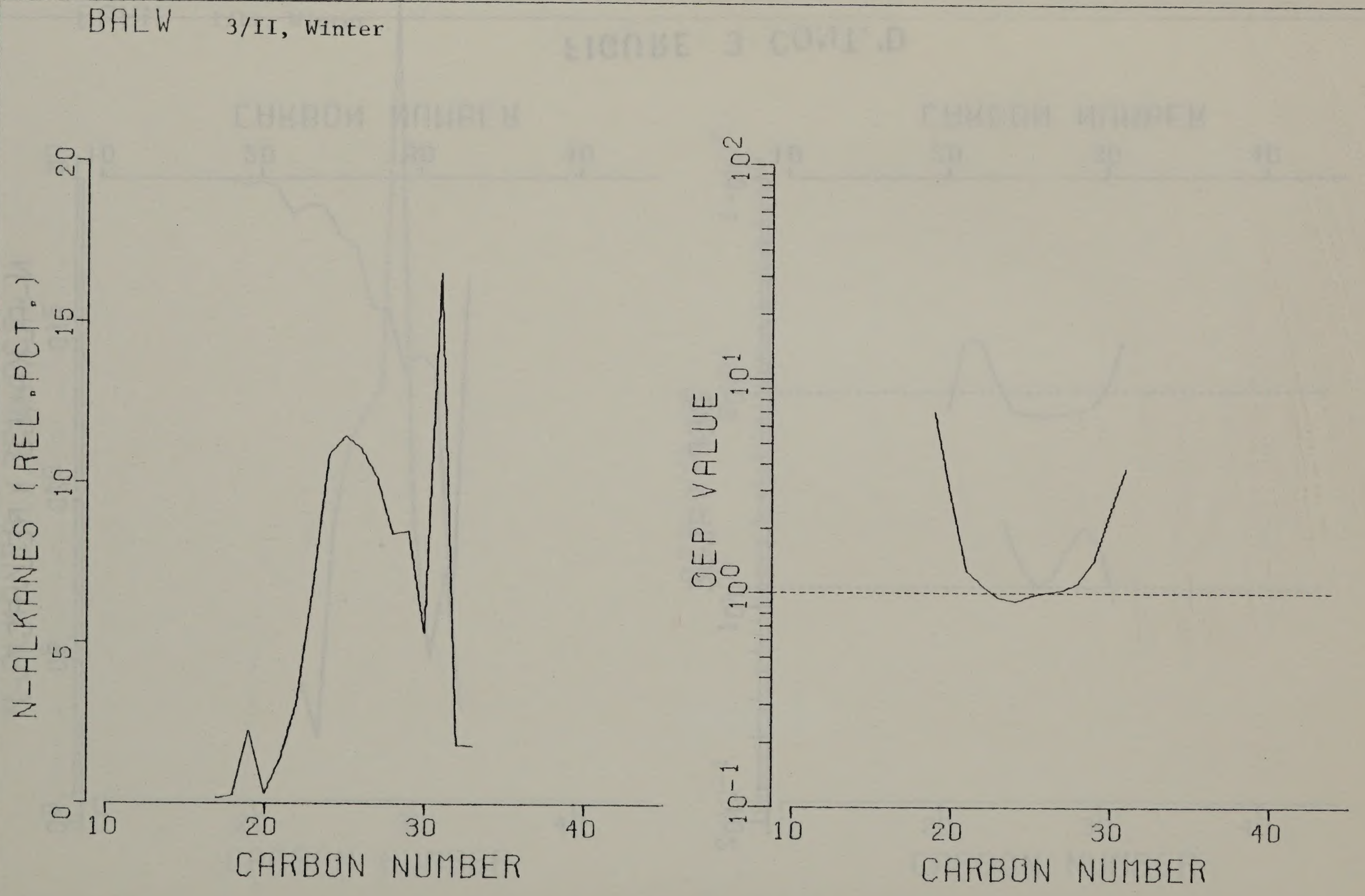

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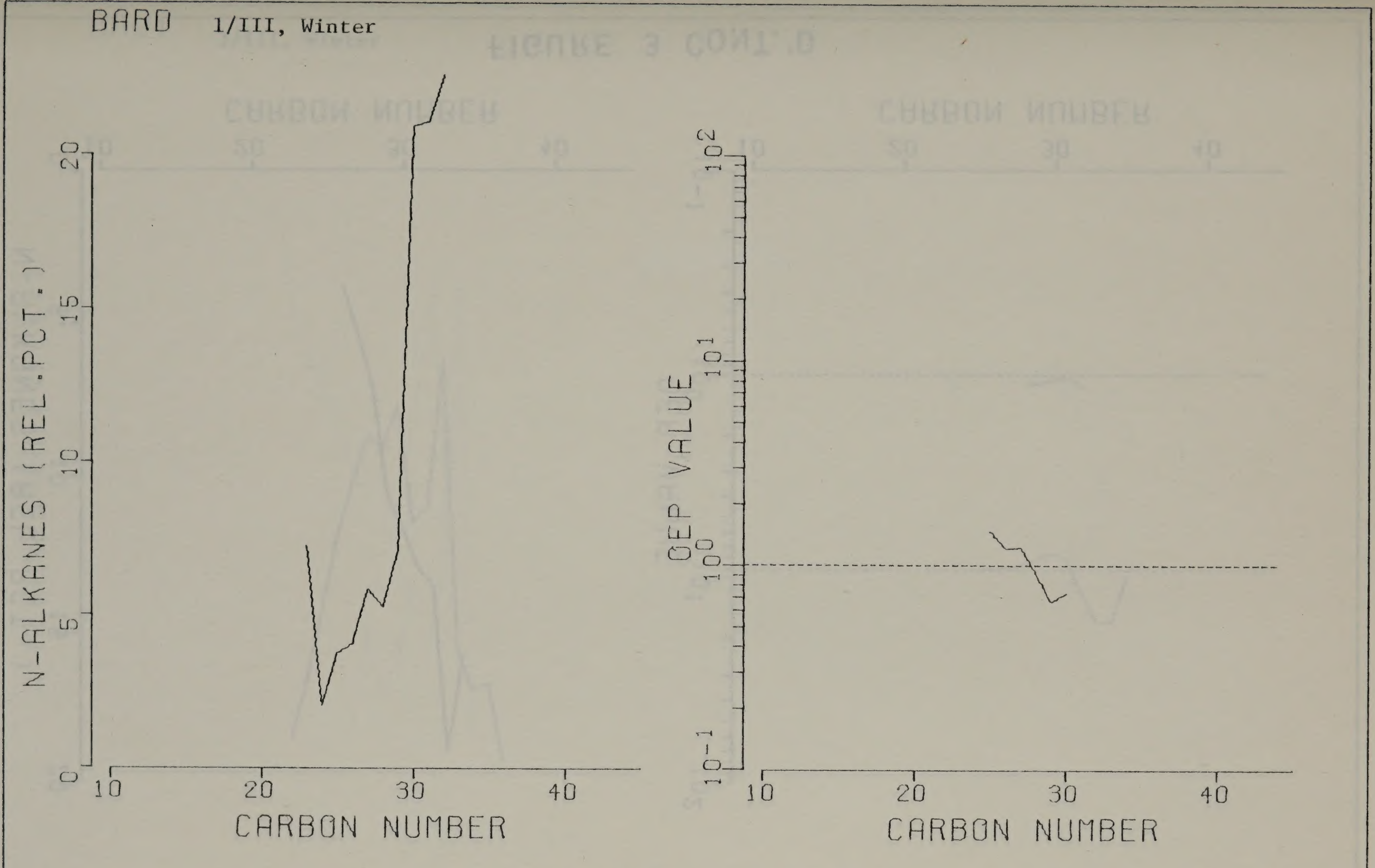

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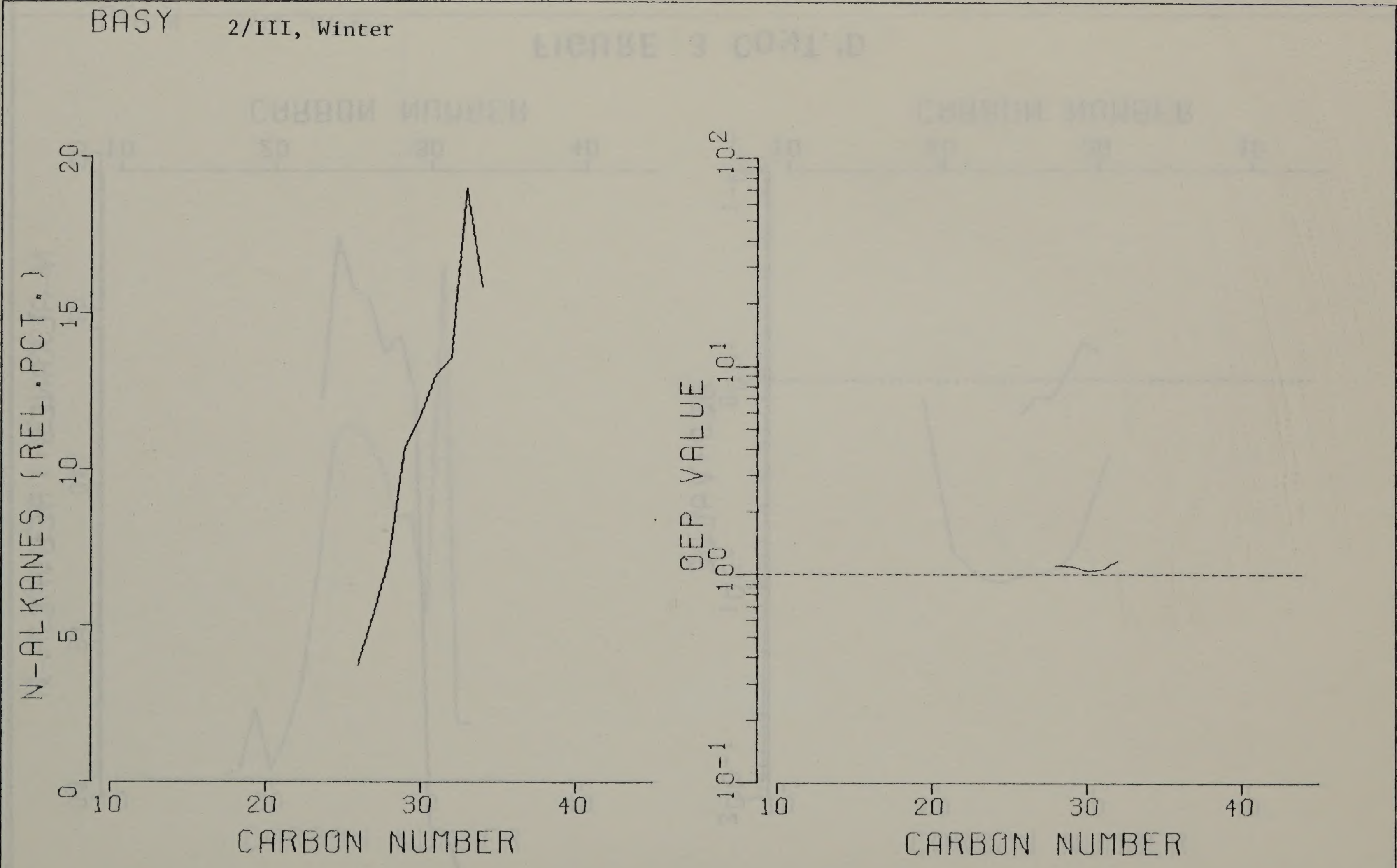

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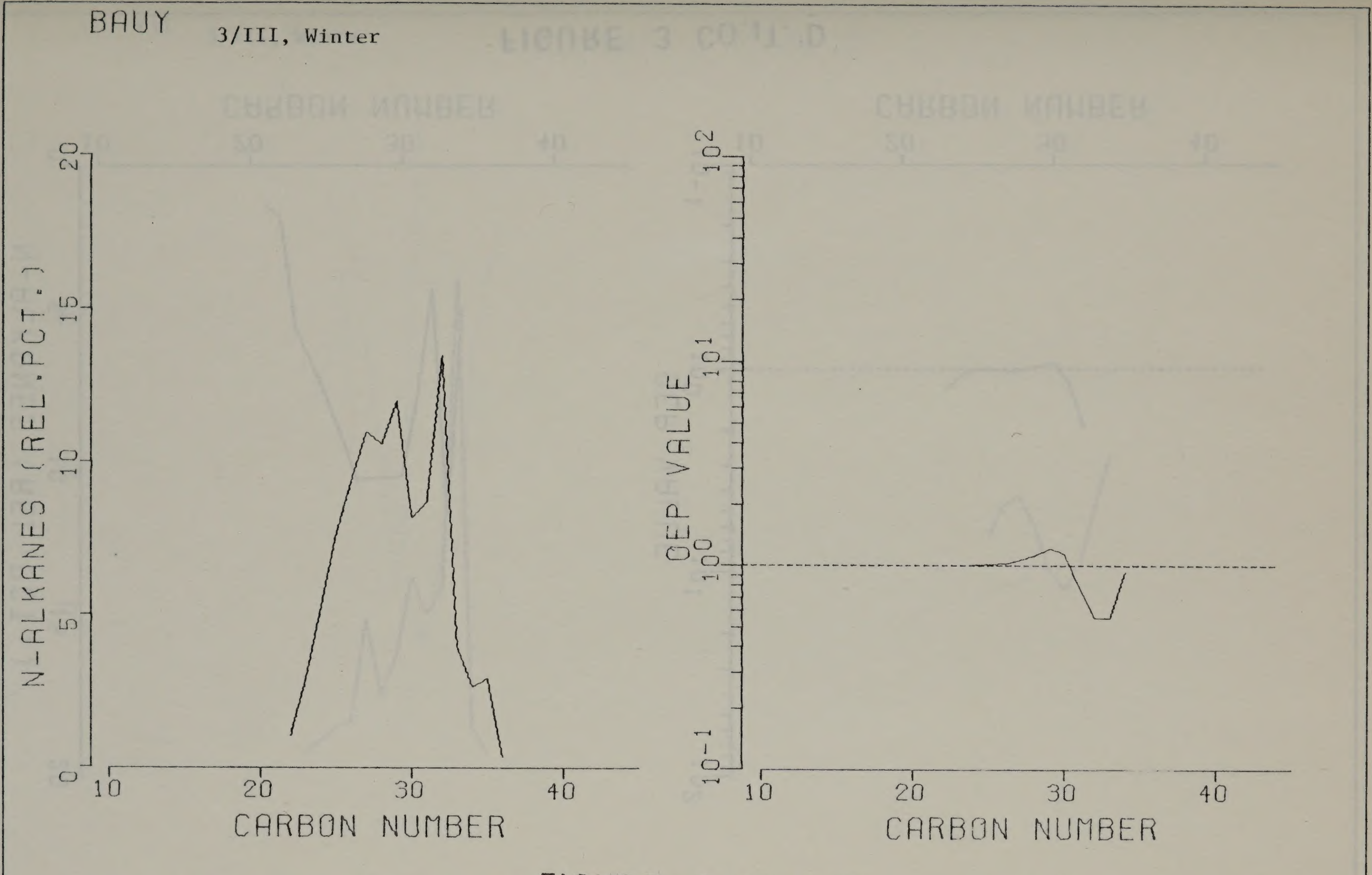

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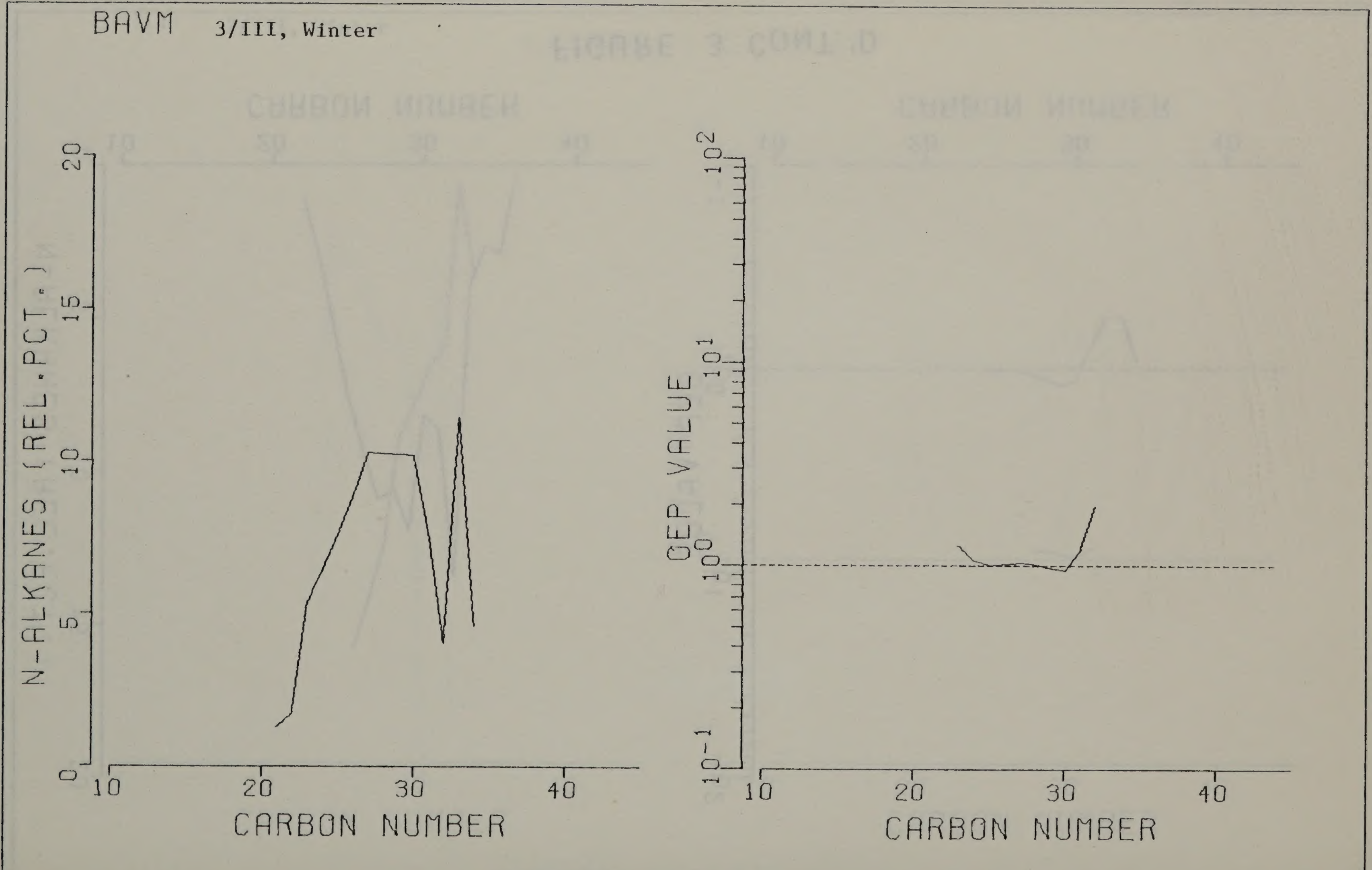

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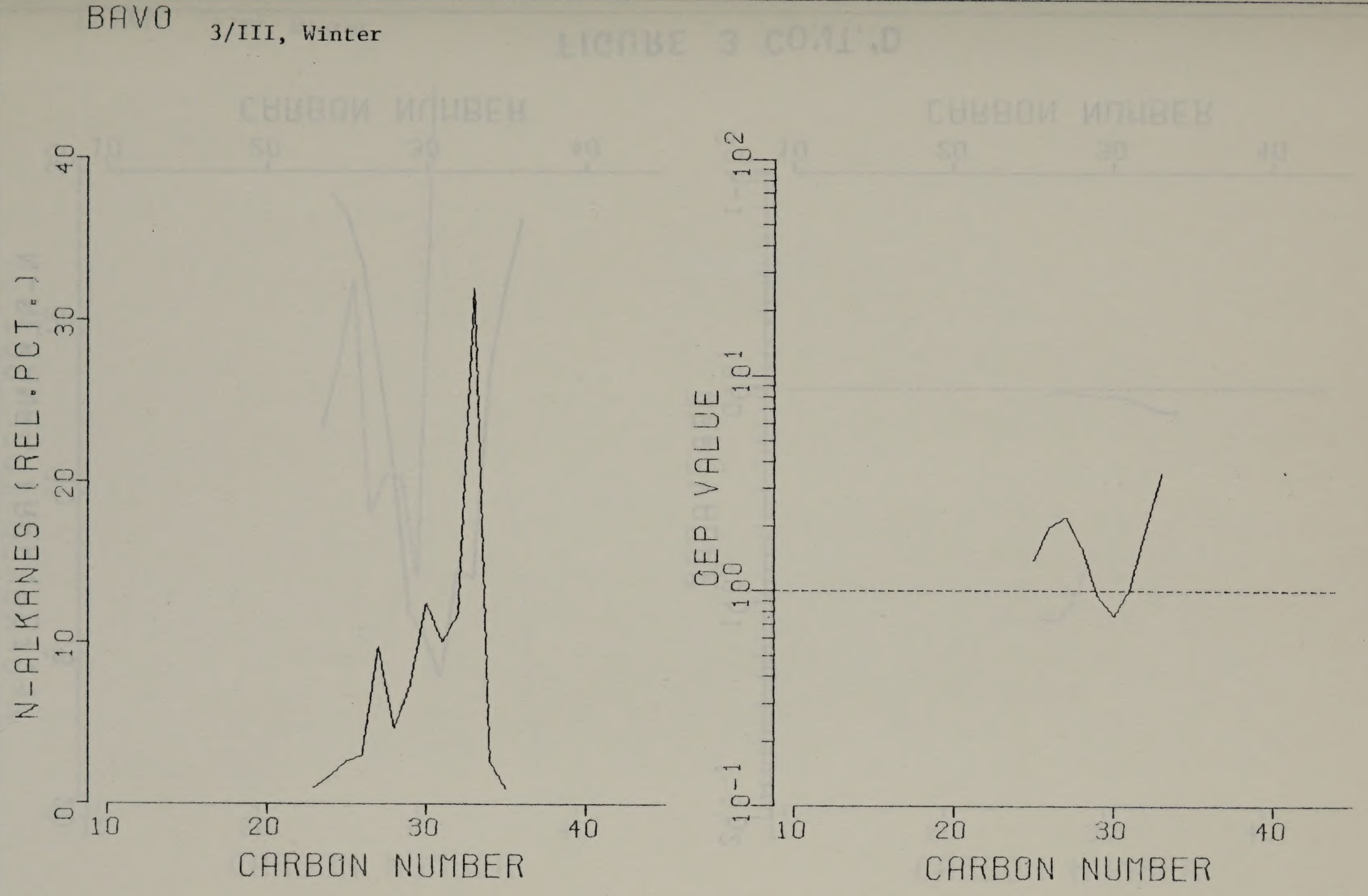

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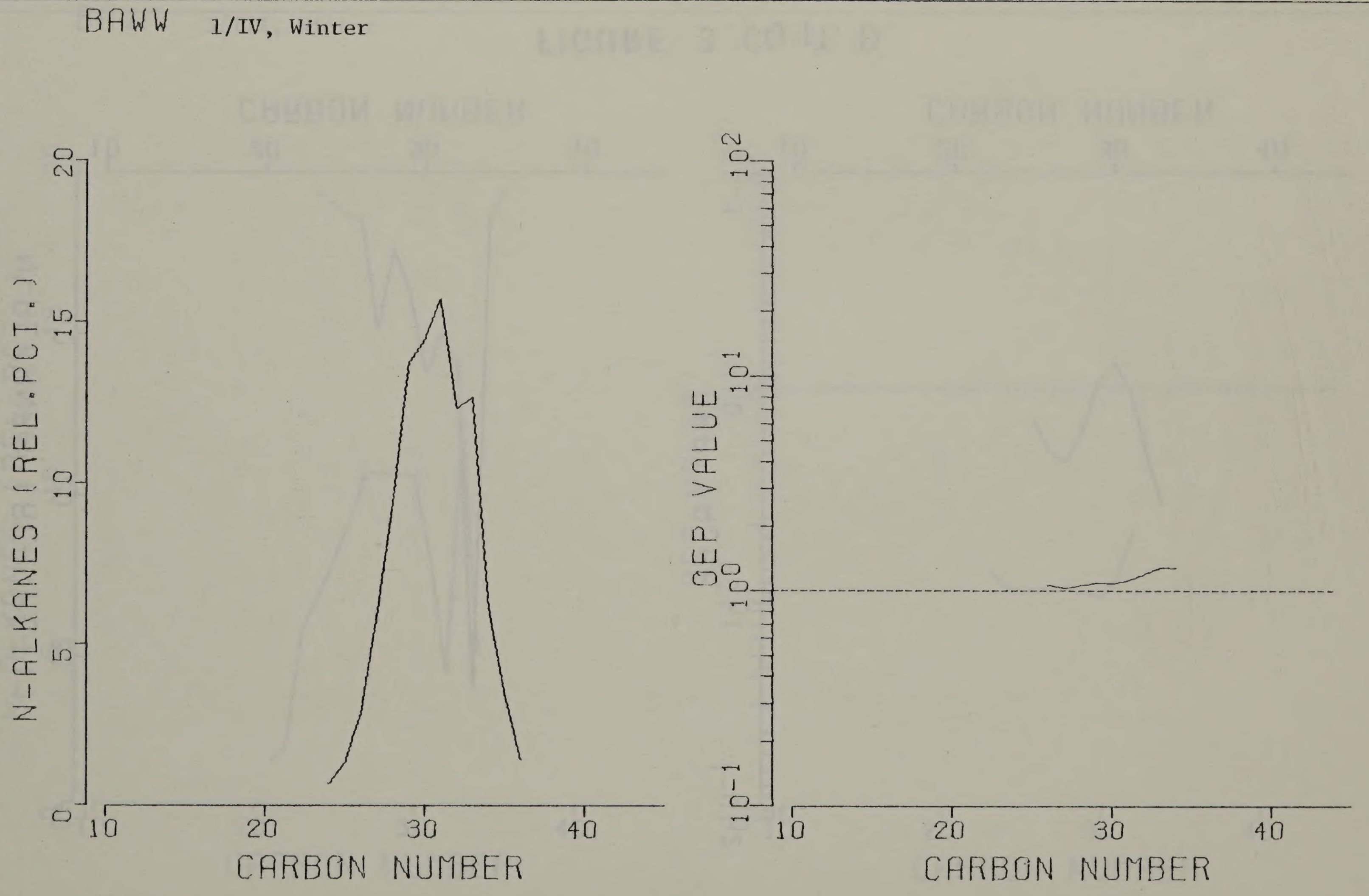

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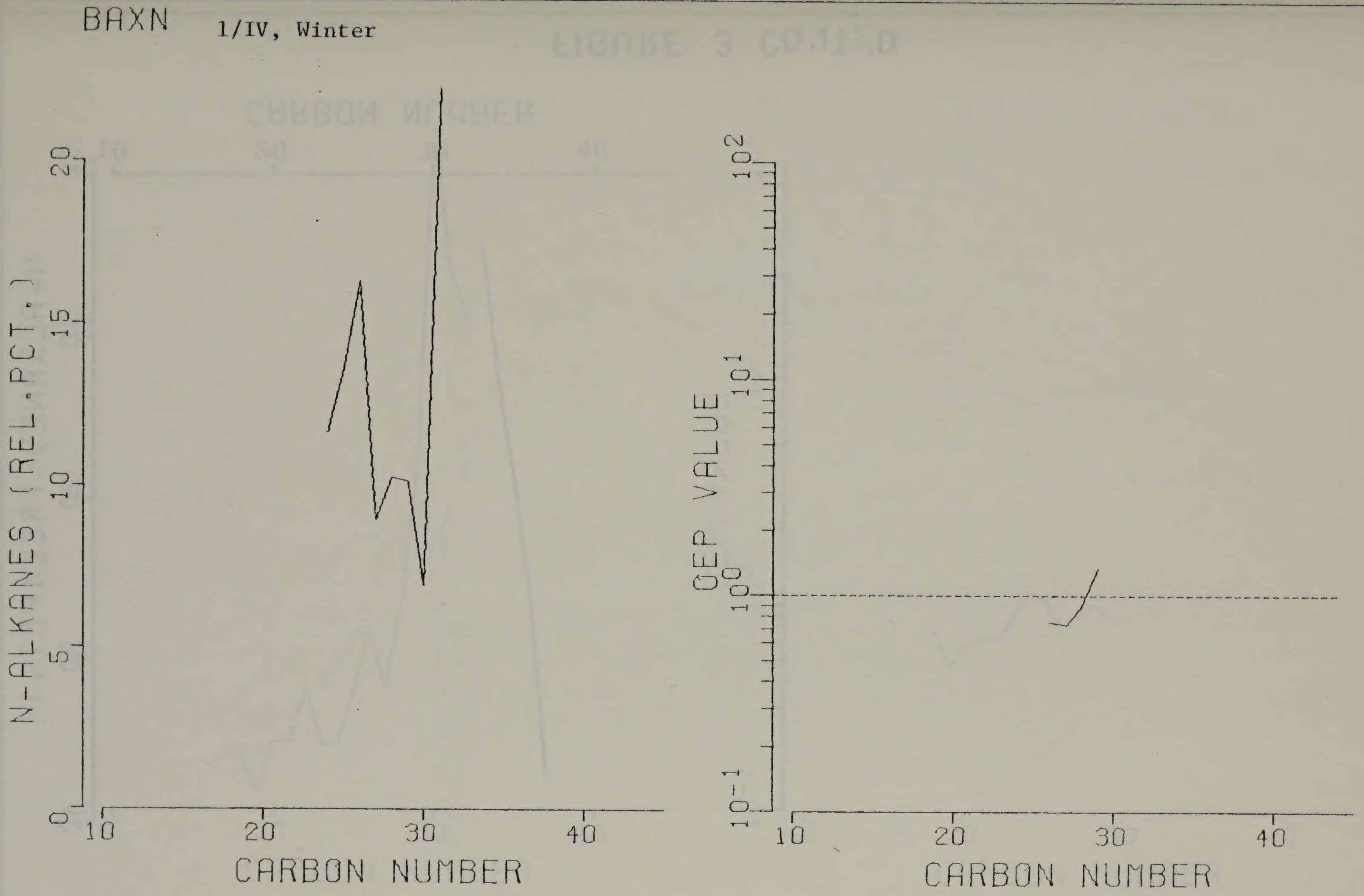

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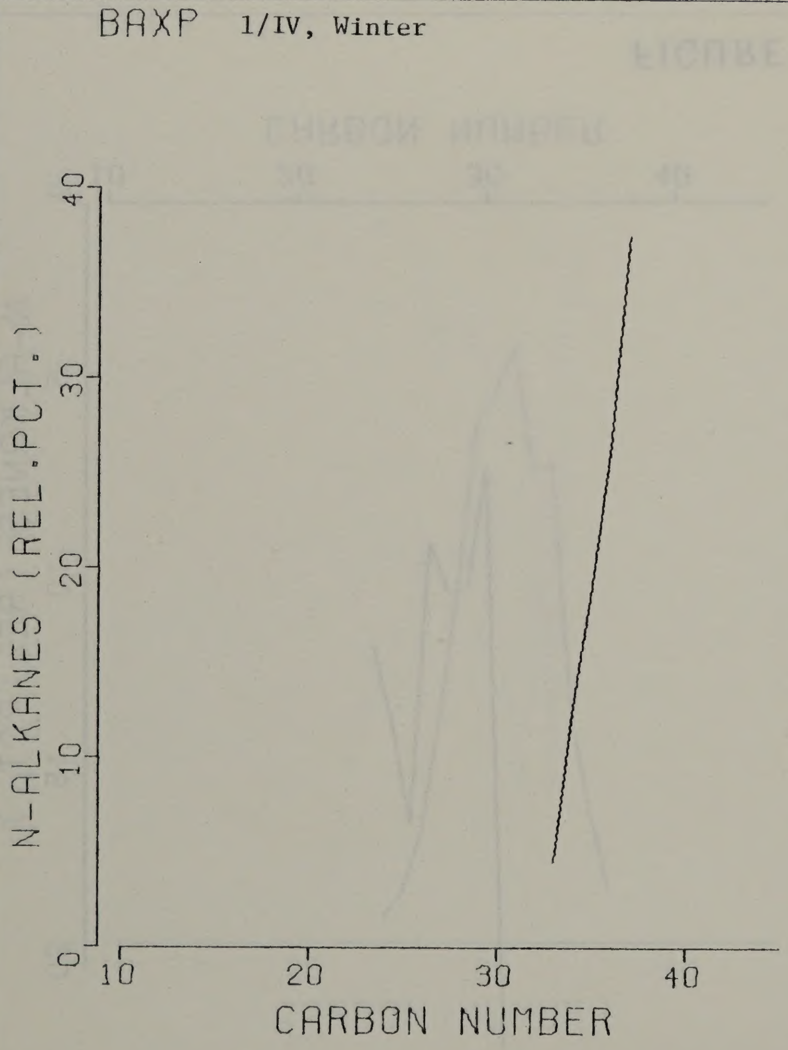

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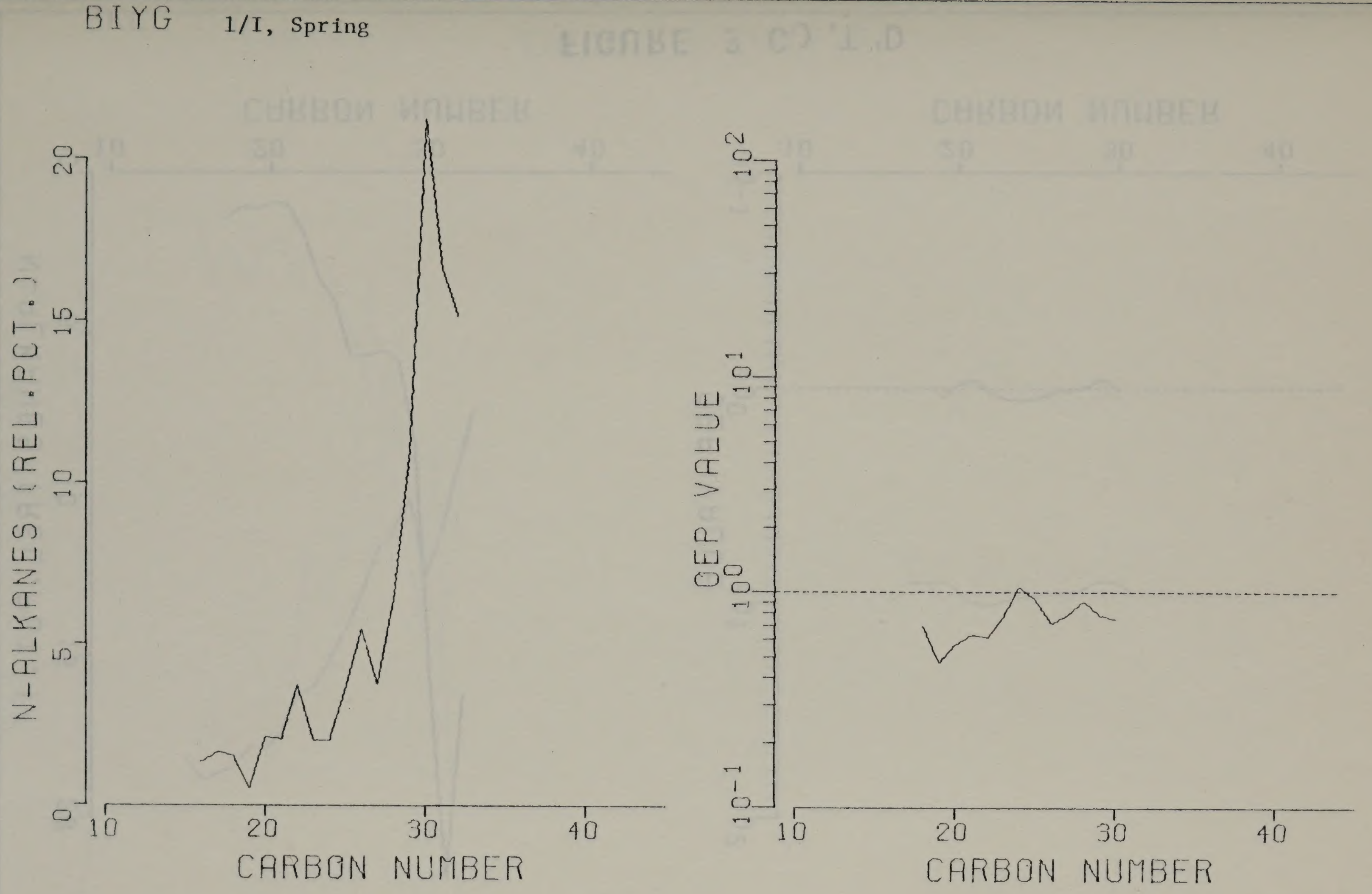

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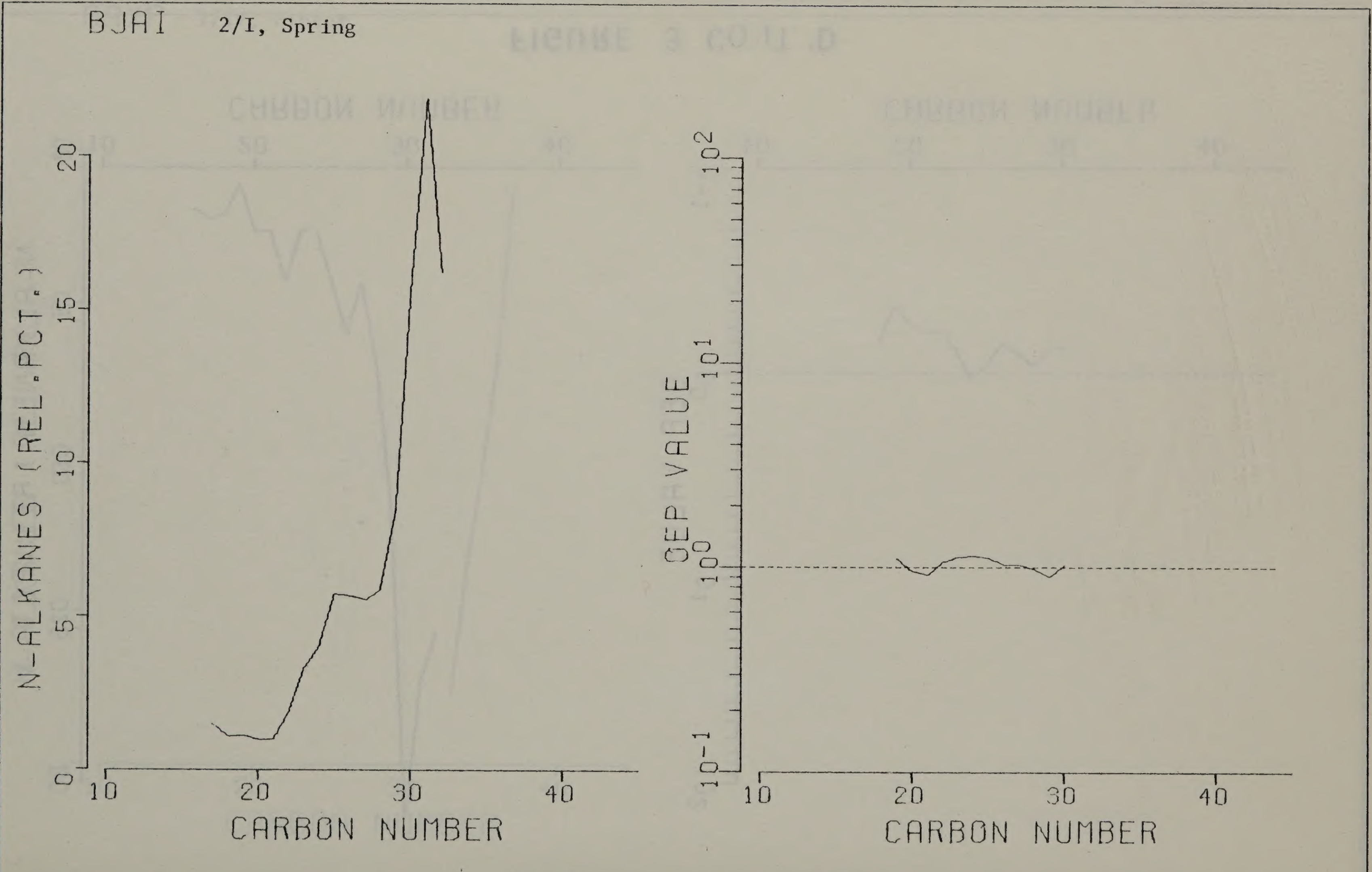

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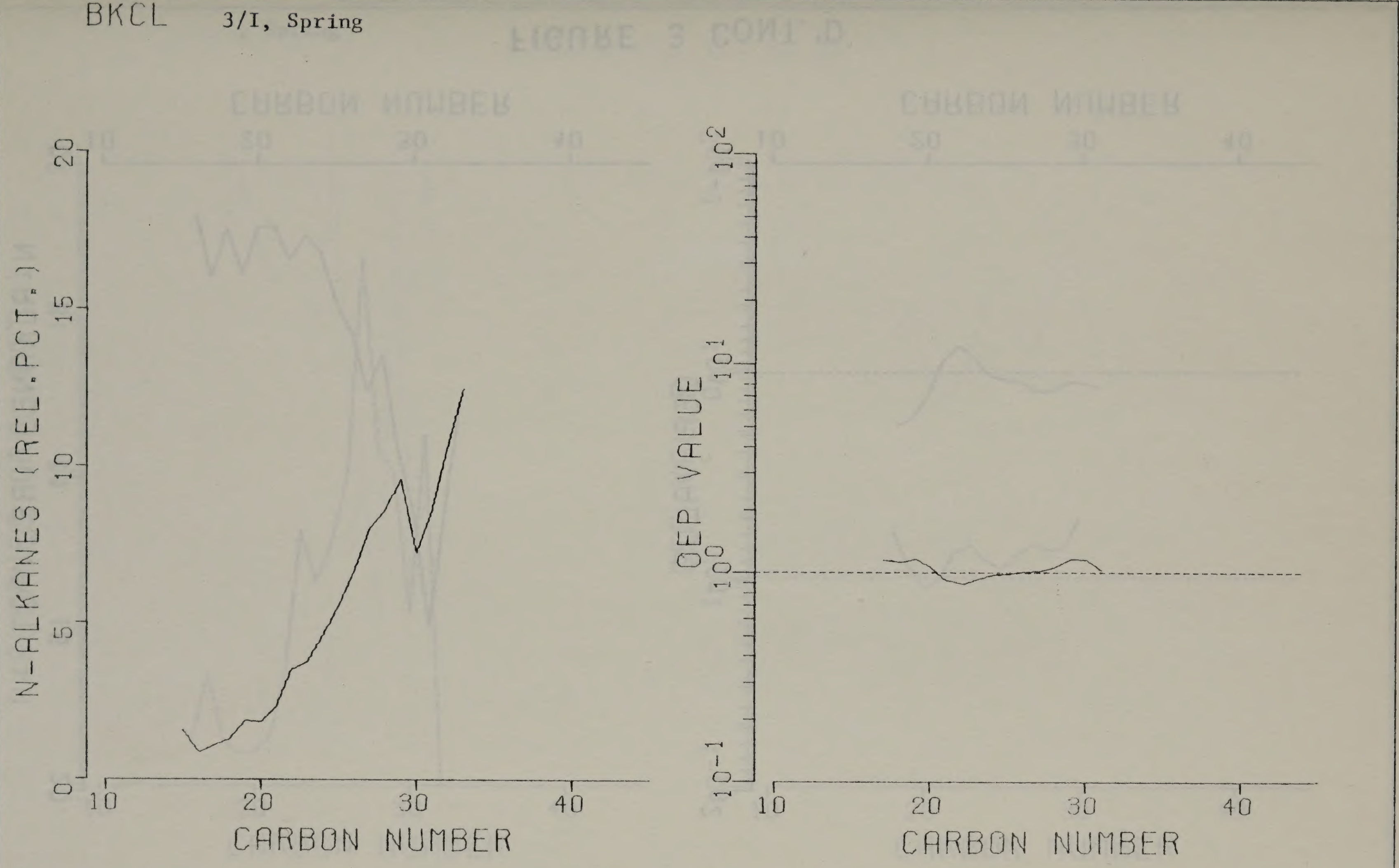

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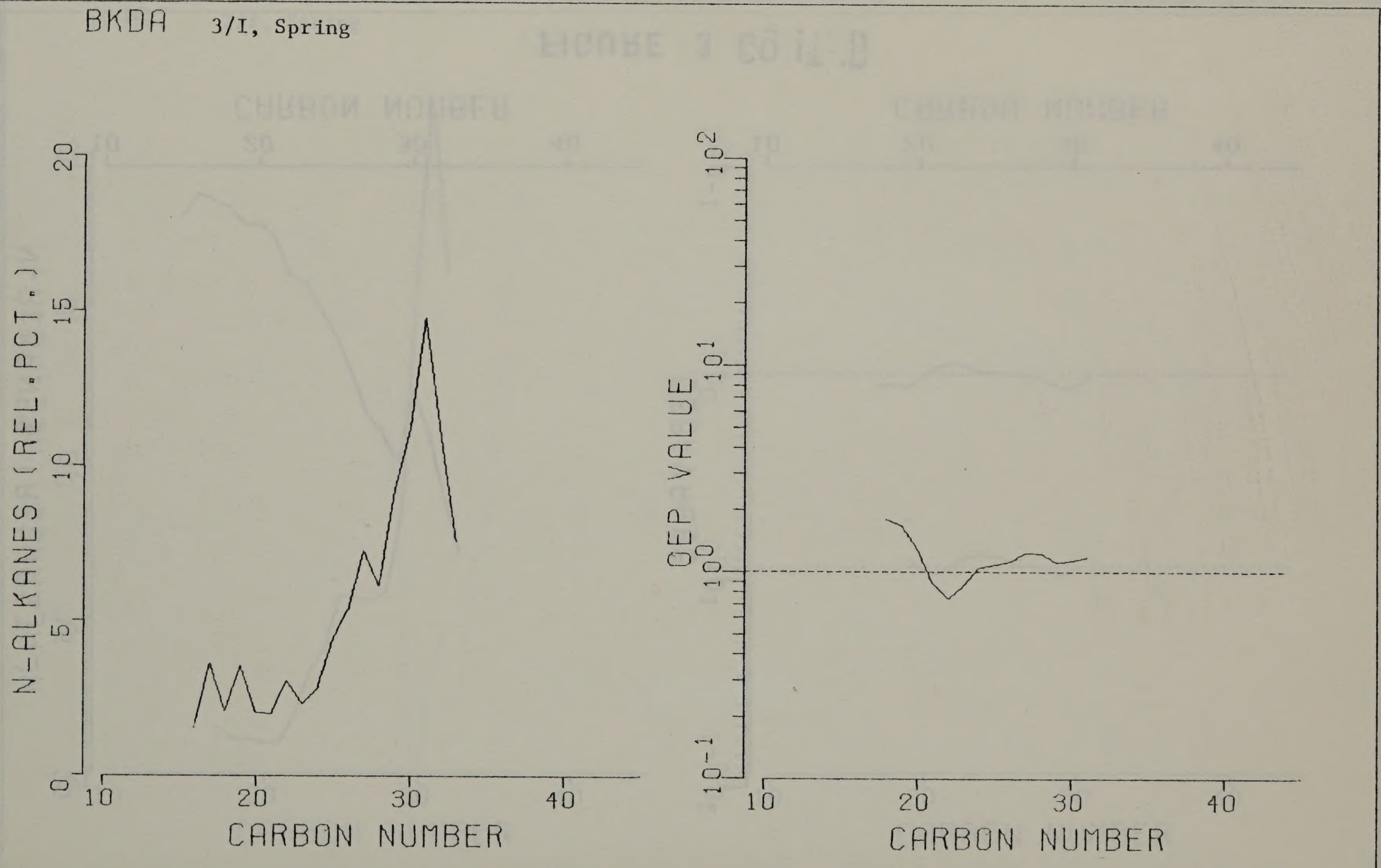
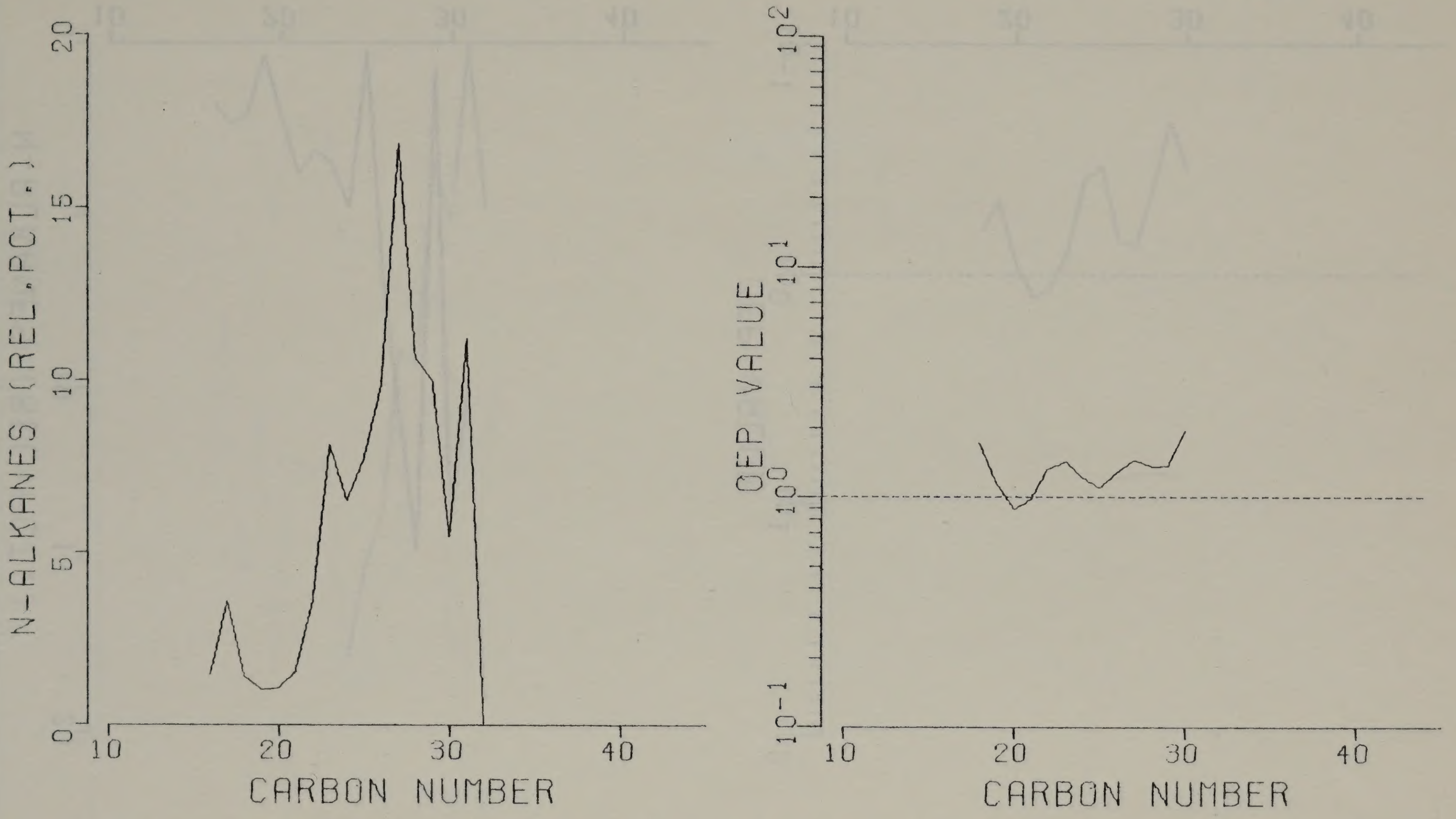


FIGURE 3 CONT.'D

, Spring



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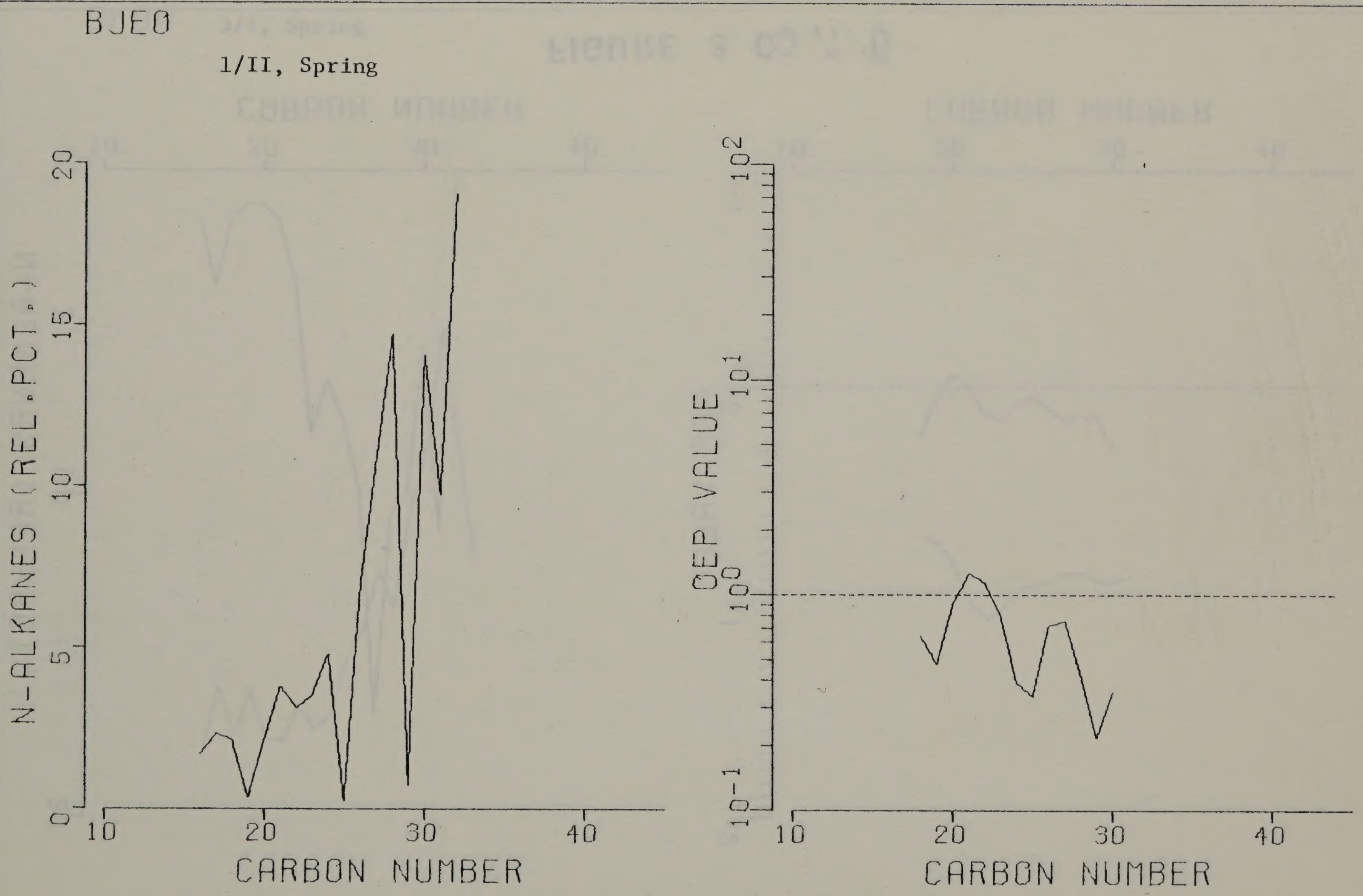

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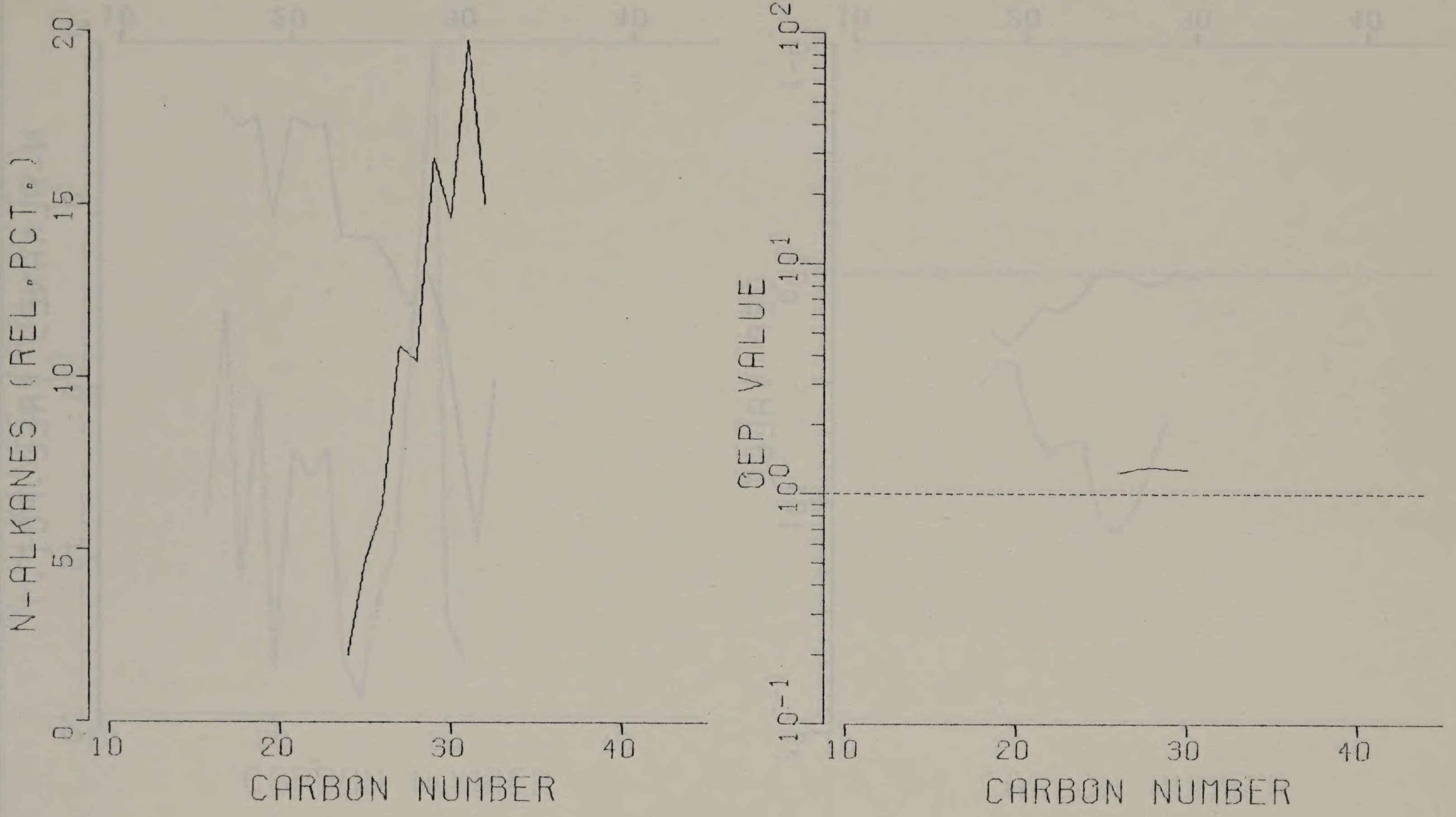
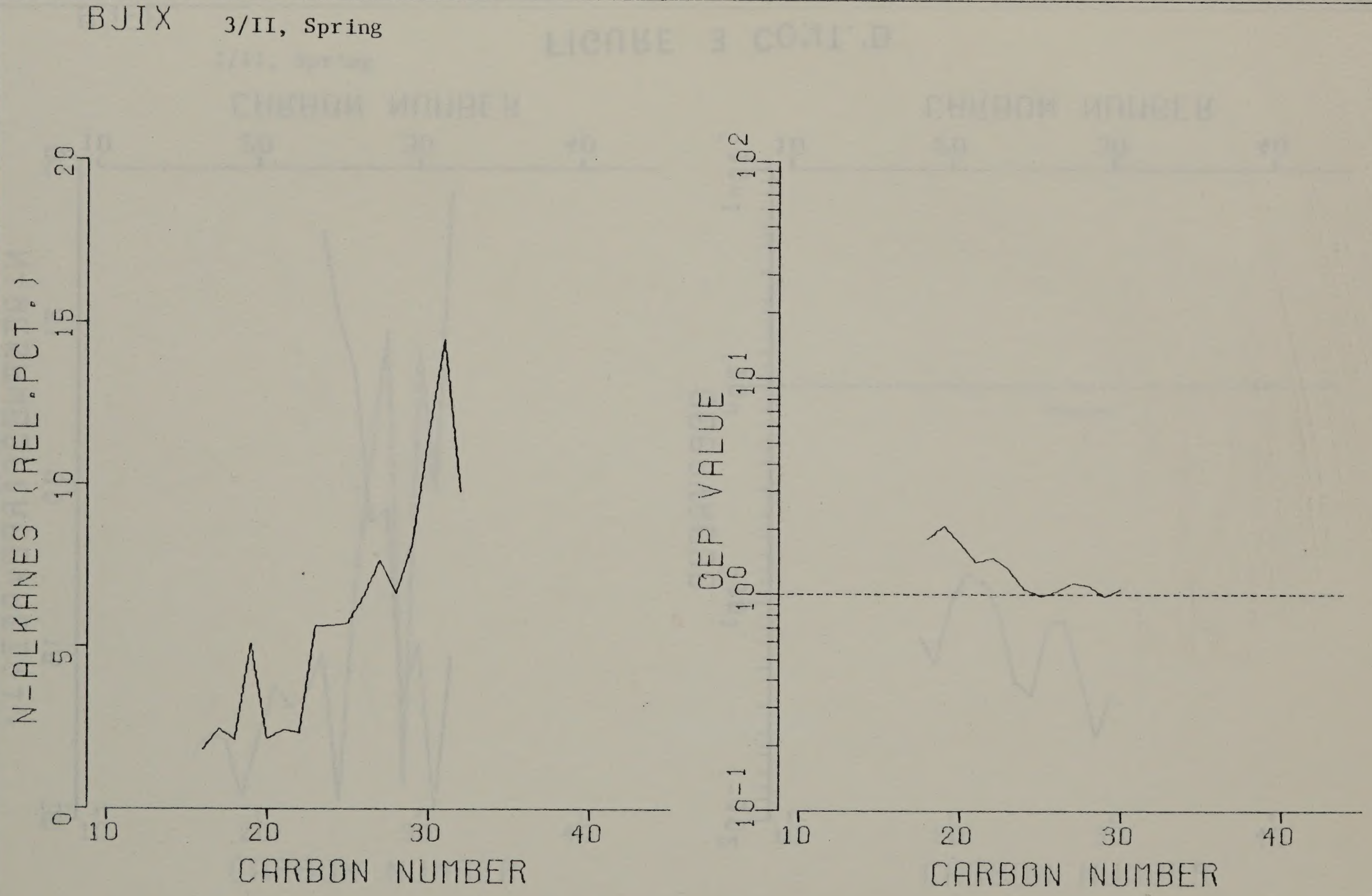

BJGS 2/II, Spring

FIGURE 3 CONT.'D



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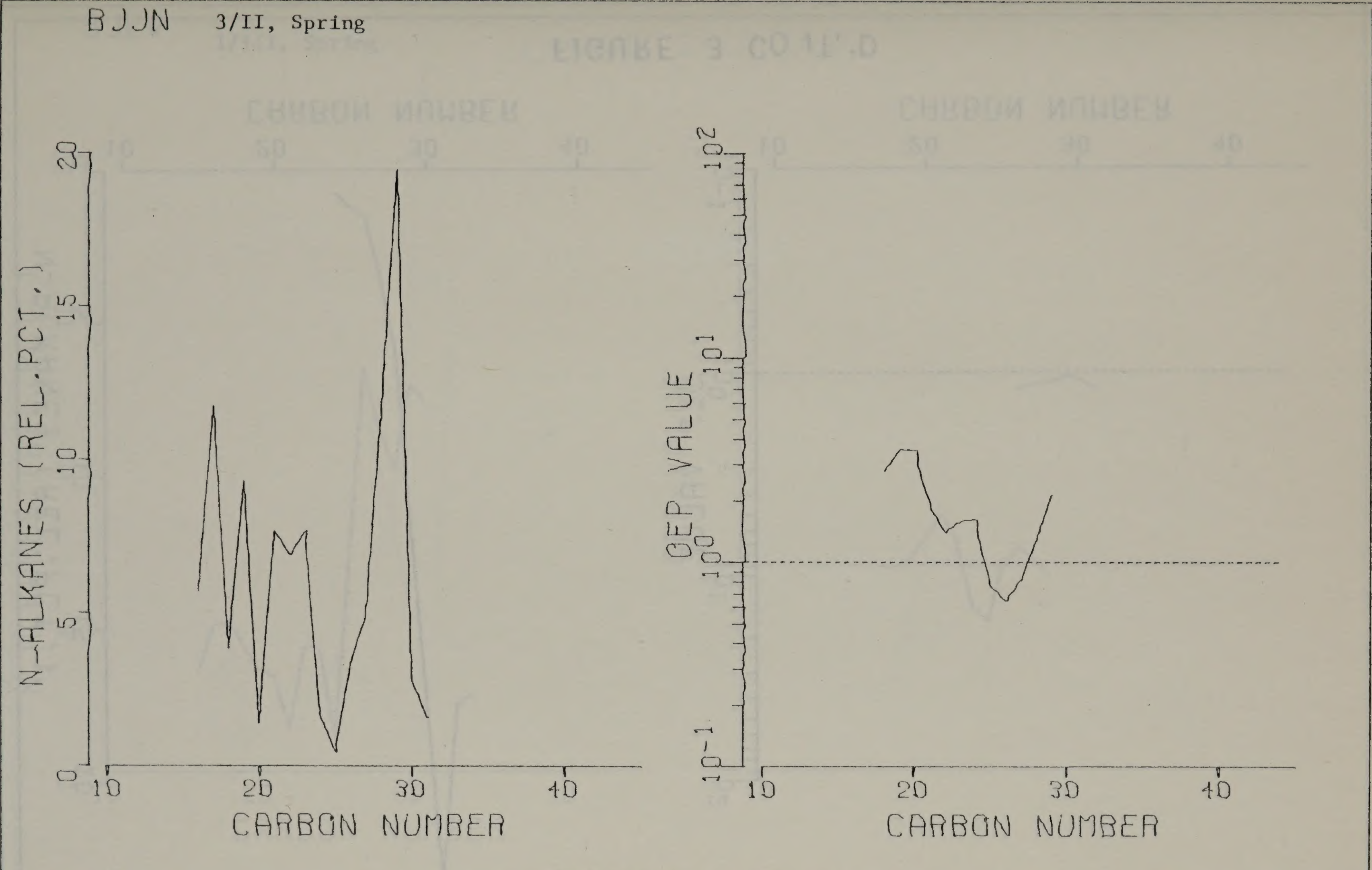
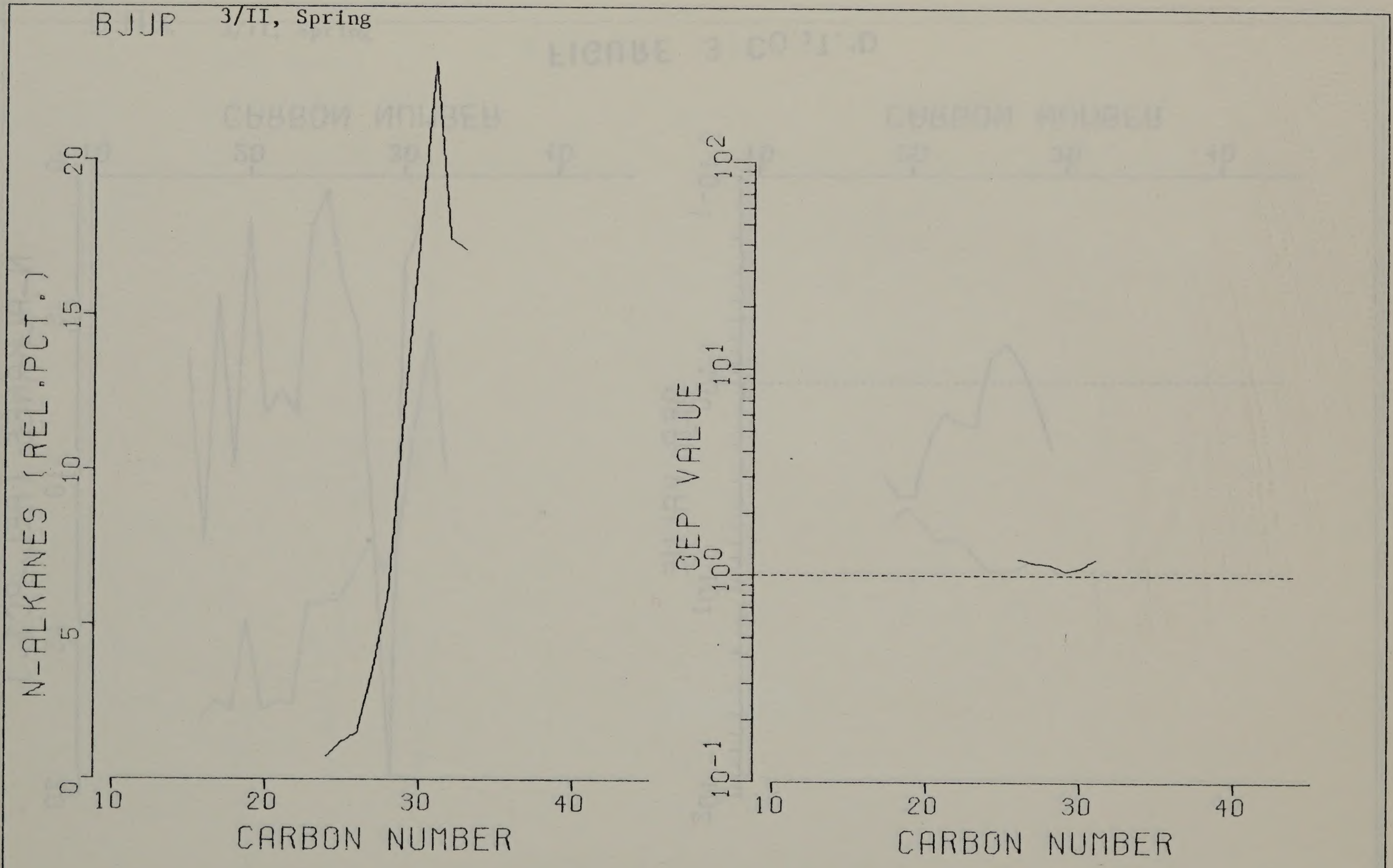


FIGURE 3 CO.iT.'D



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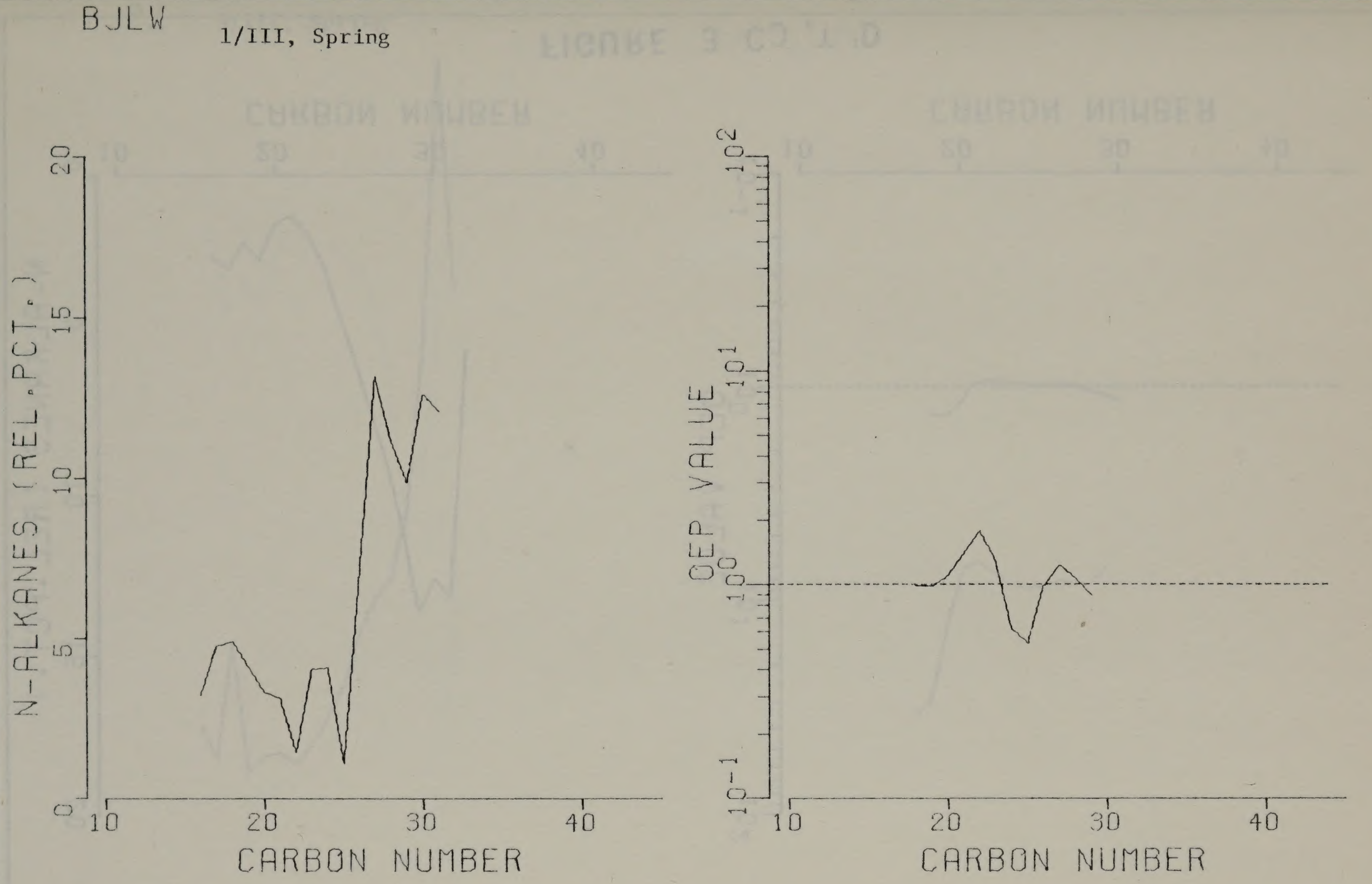

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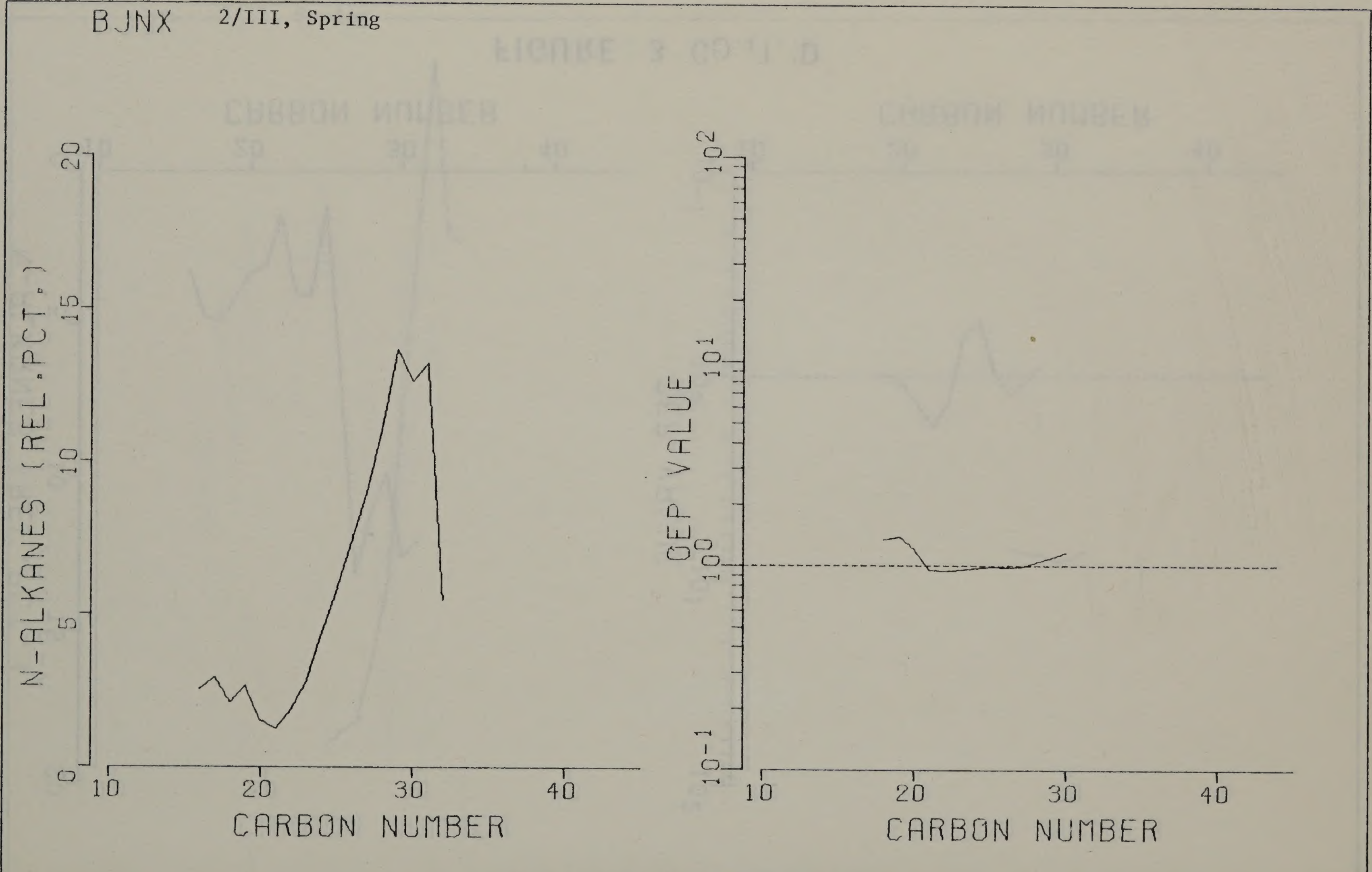

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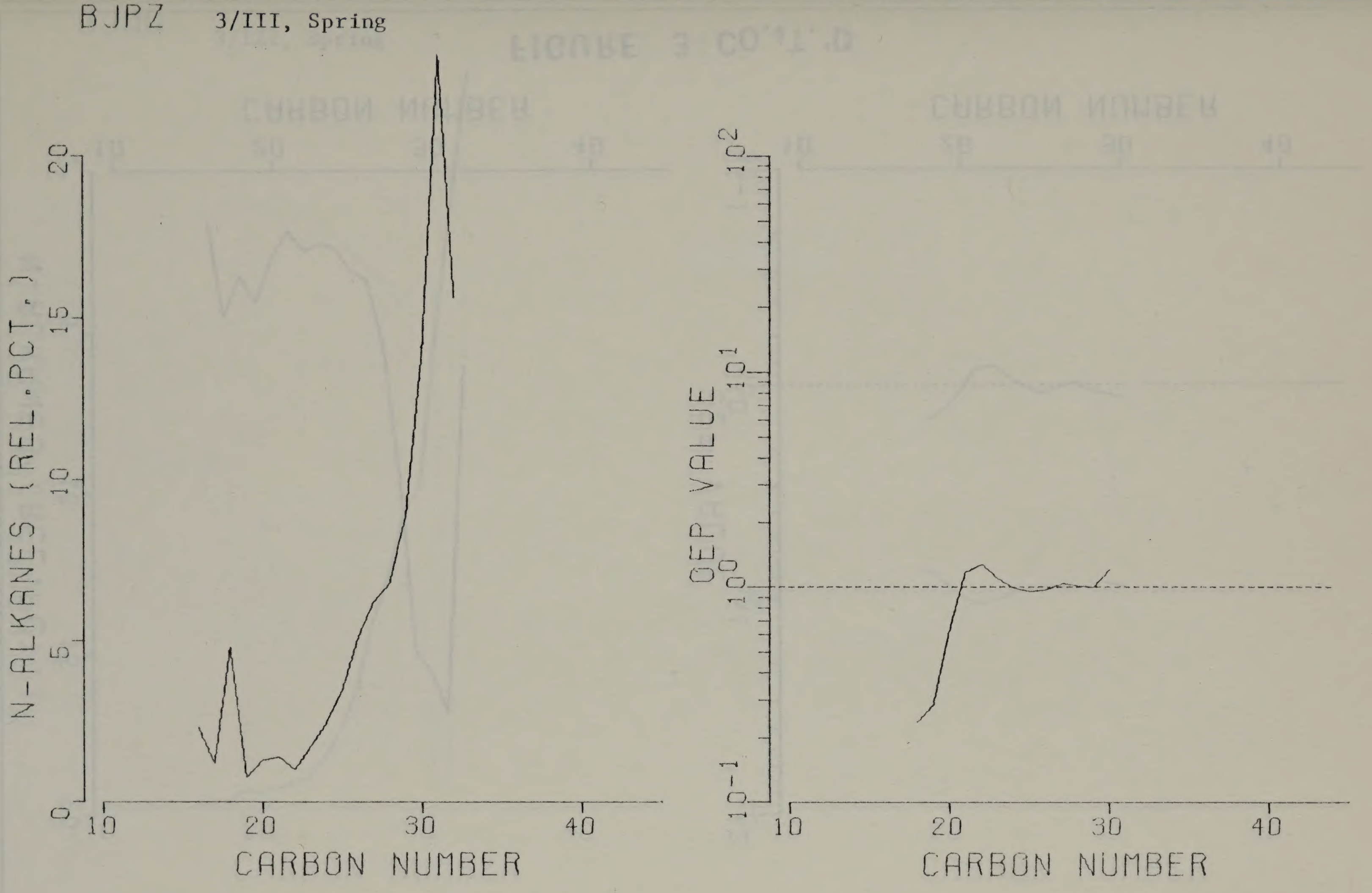

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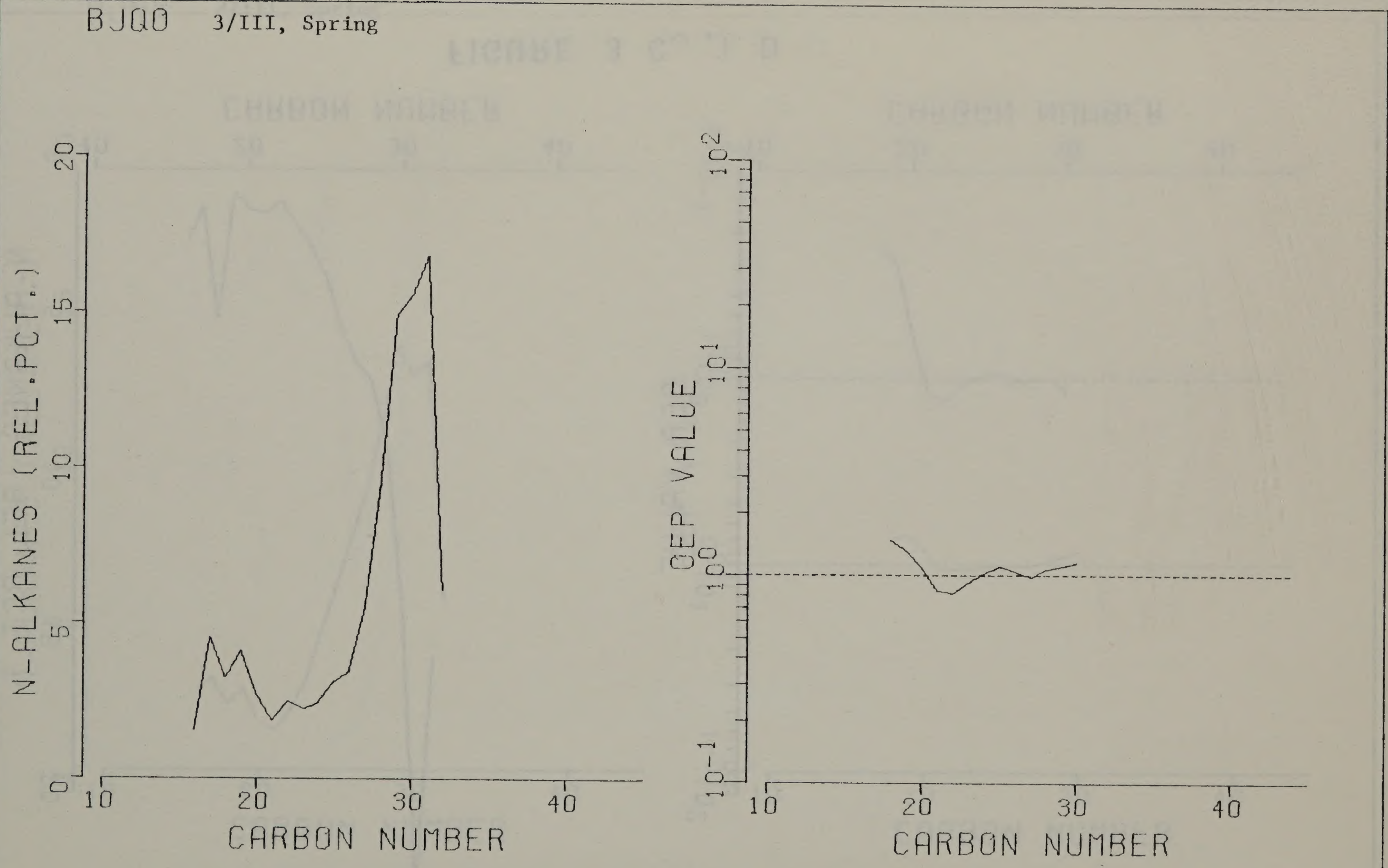

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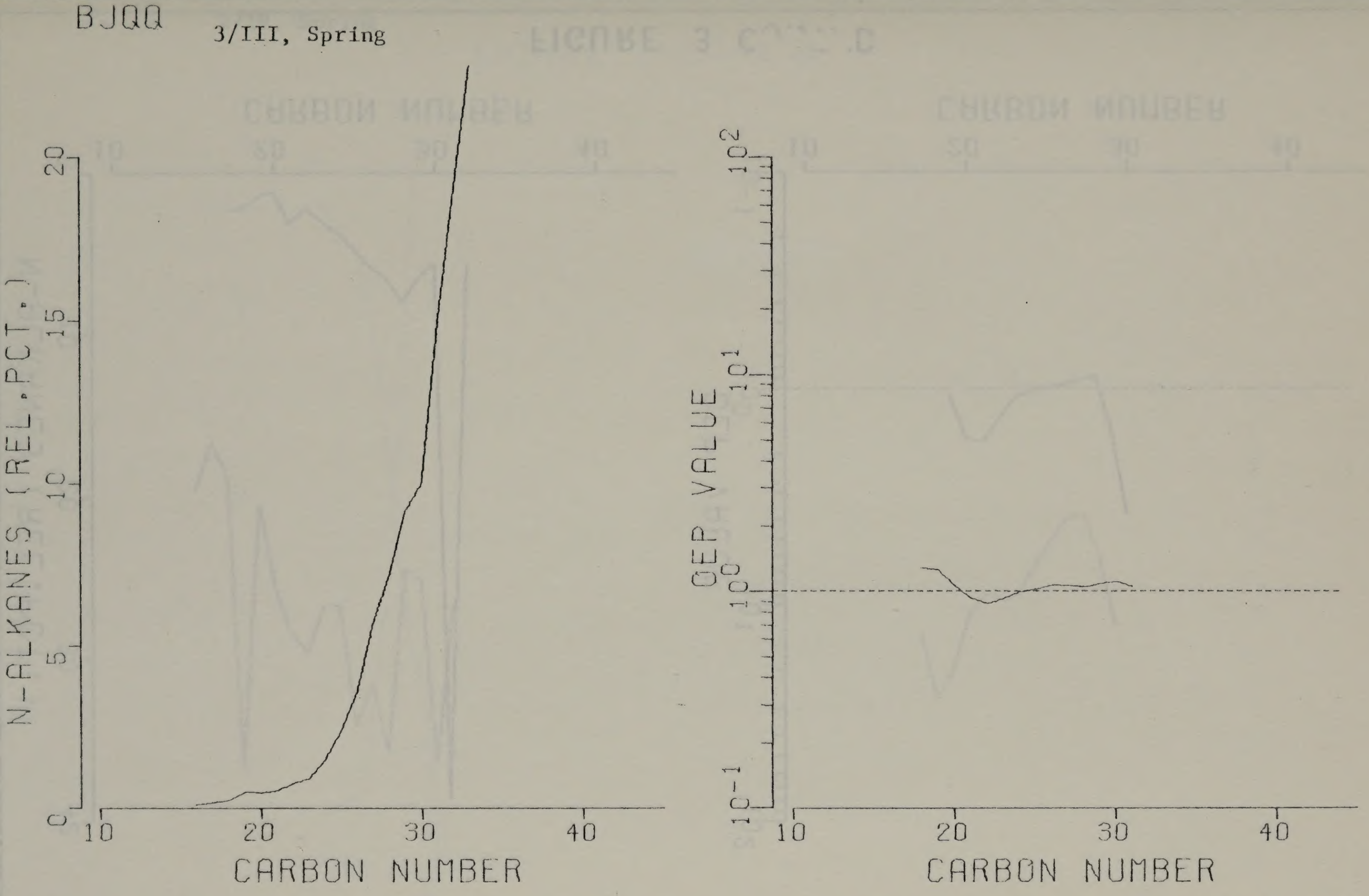

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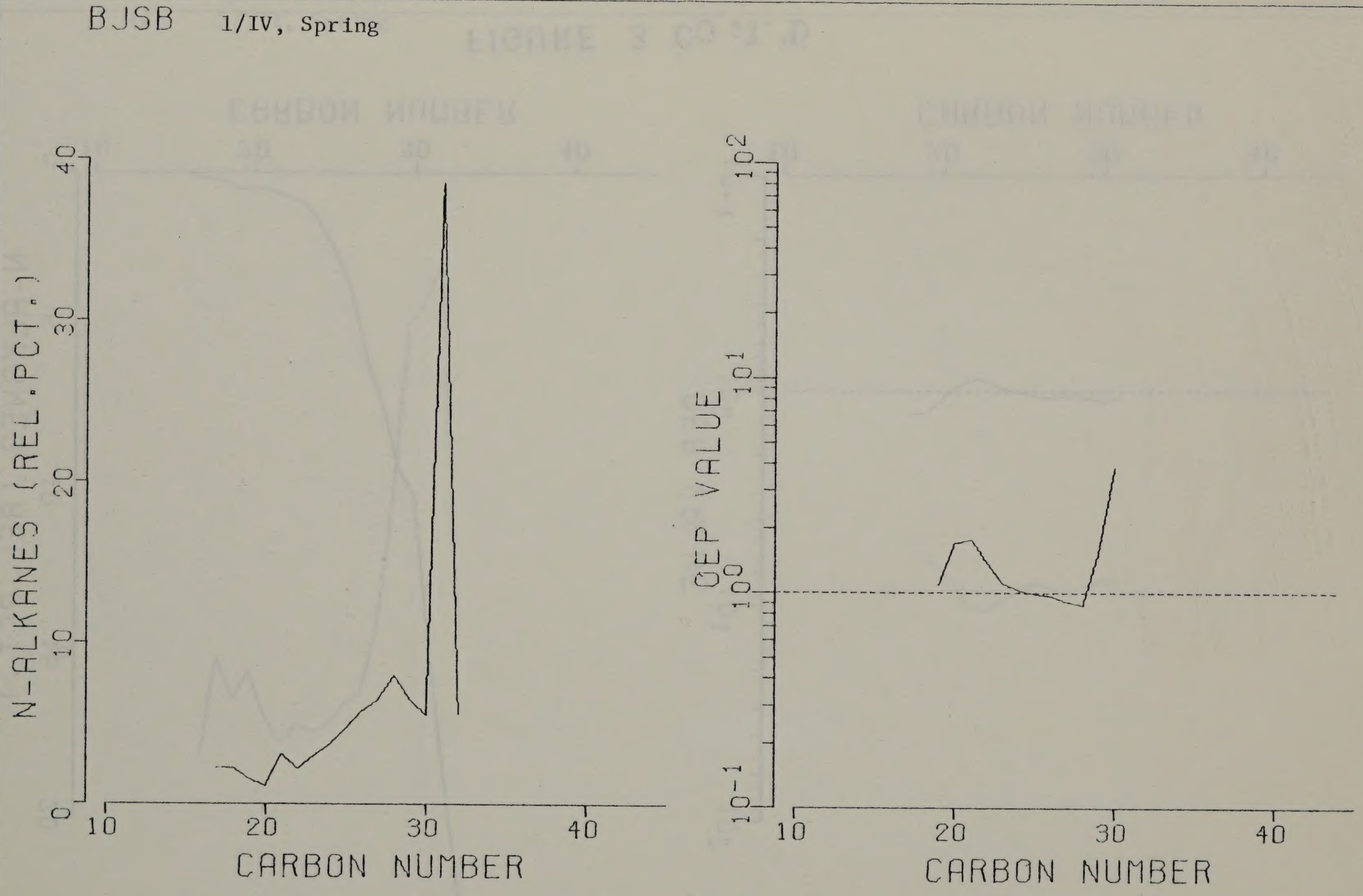


FIGURE 3 CONT'D

BJUB 2/IV, Spring

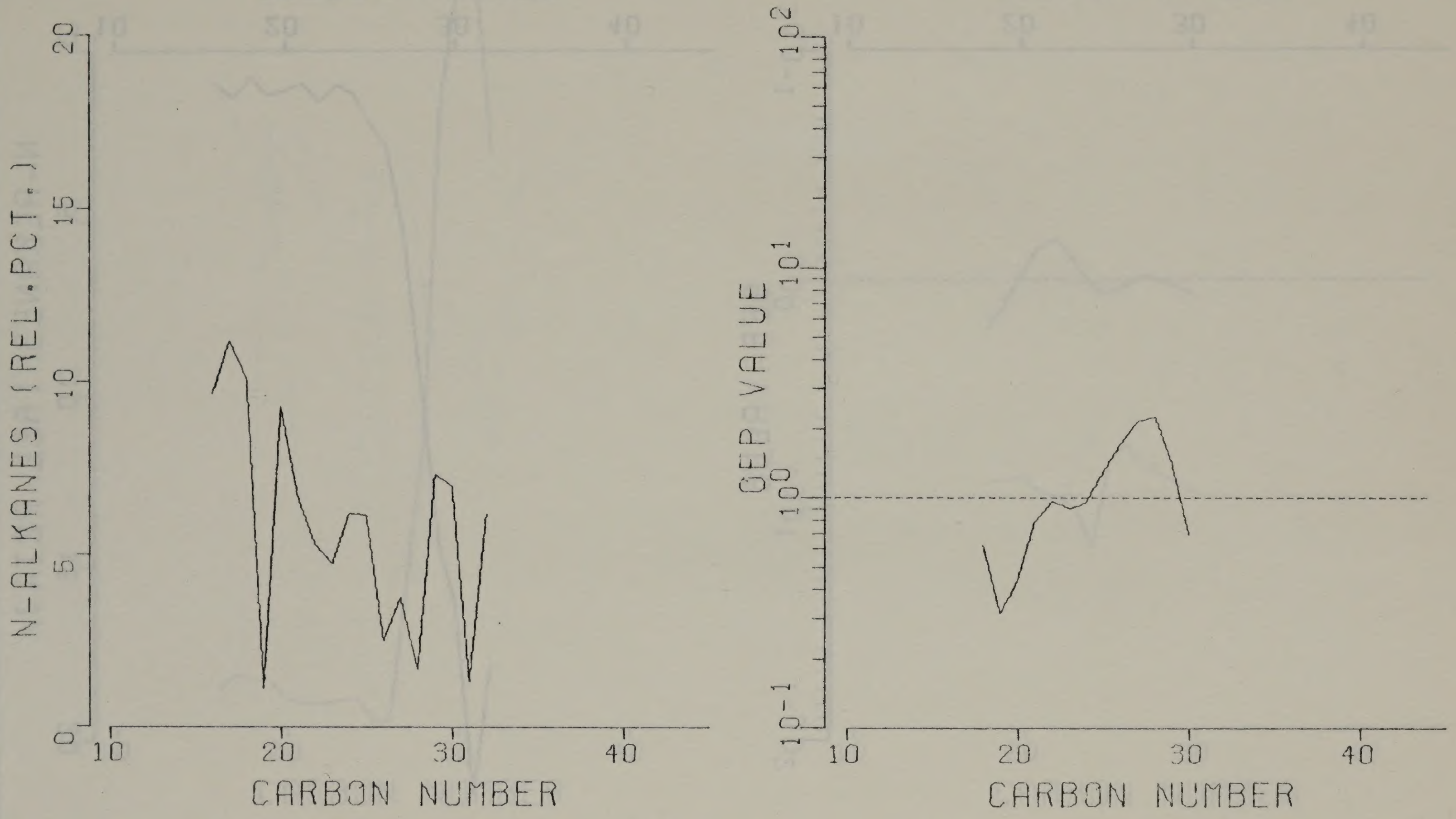
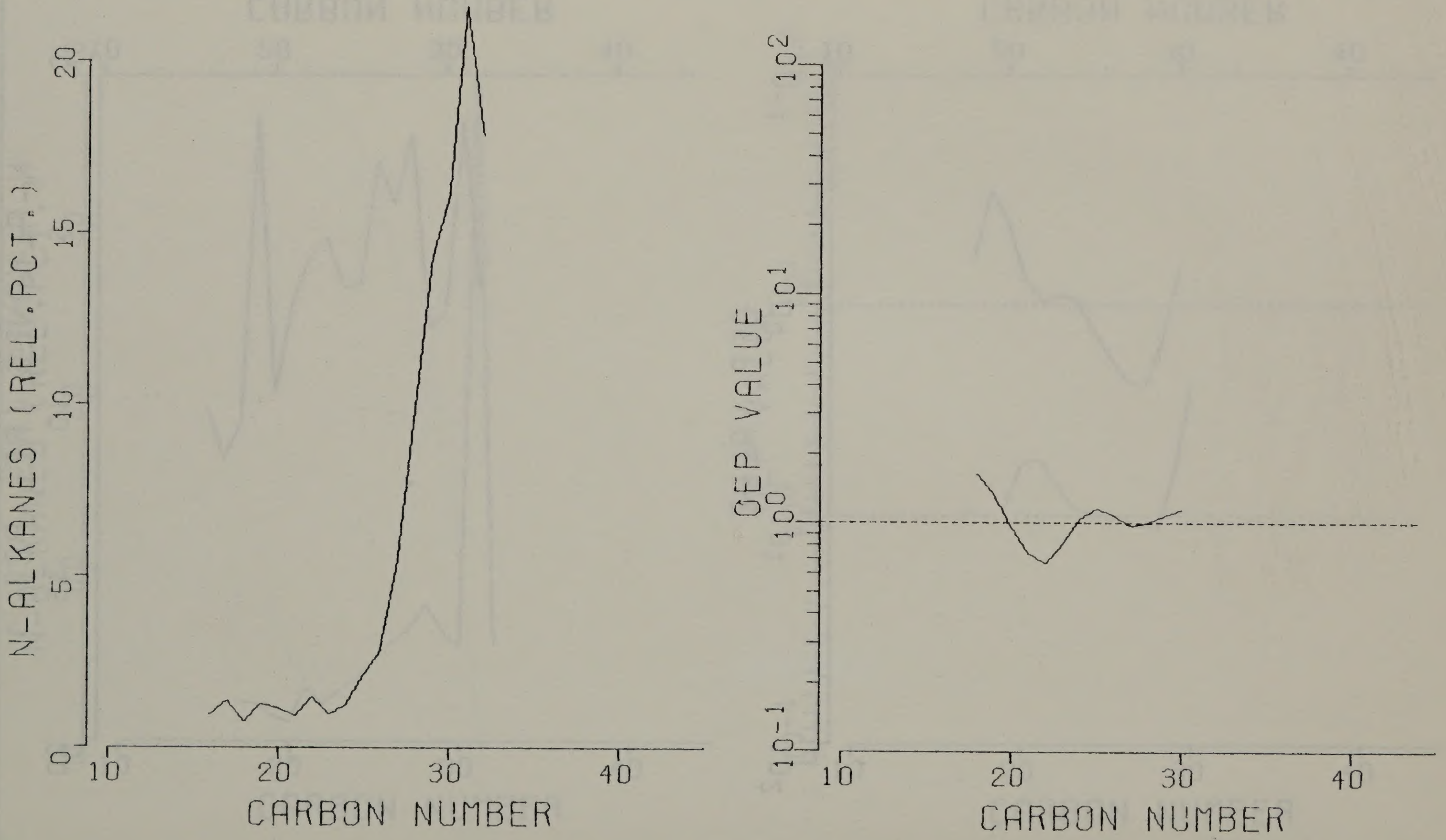


FIGURE 3 CONT'D

BJWD 3/IV, Spring



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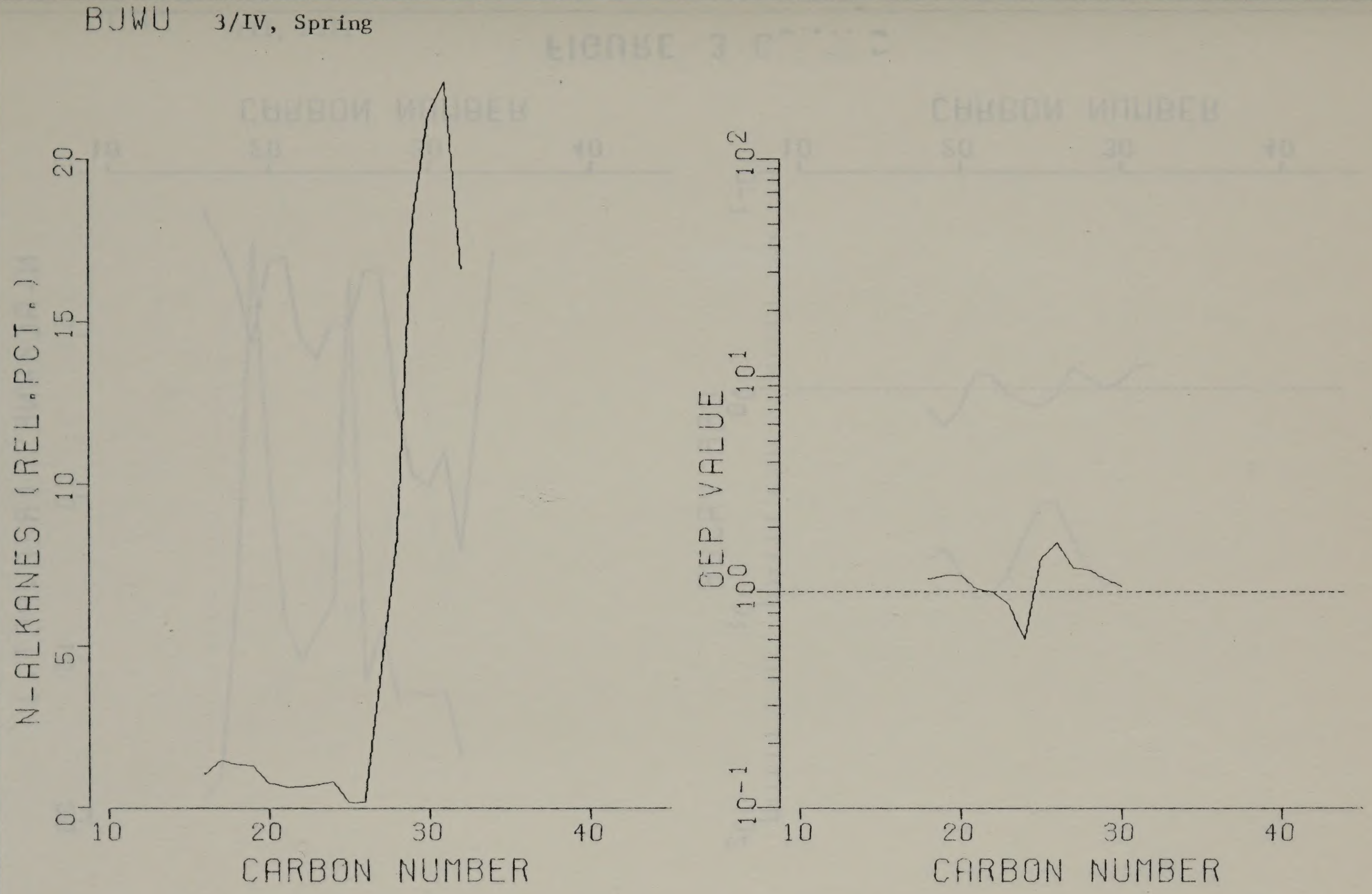

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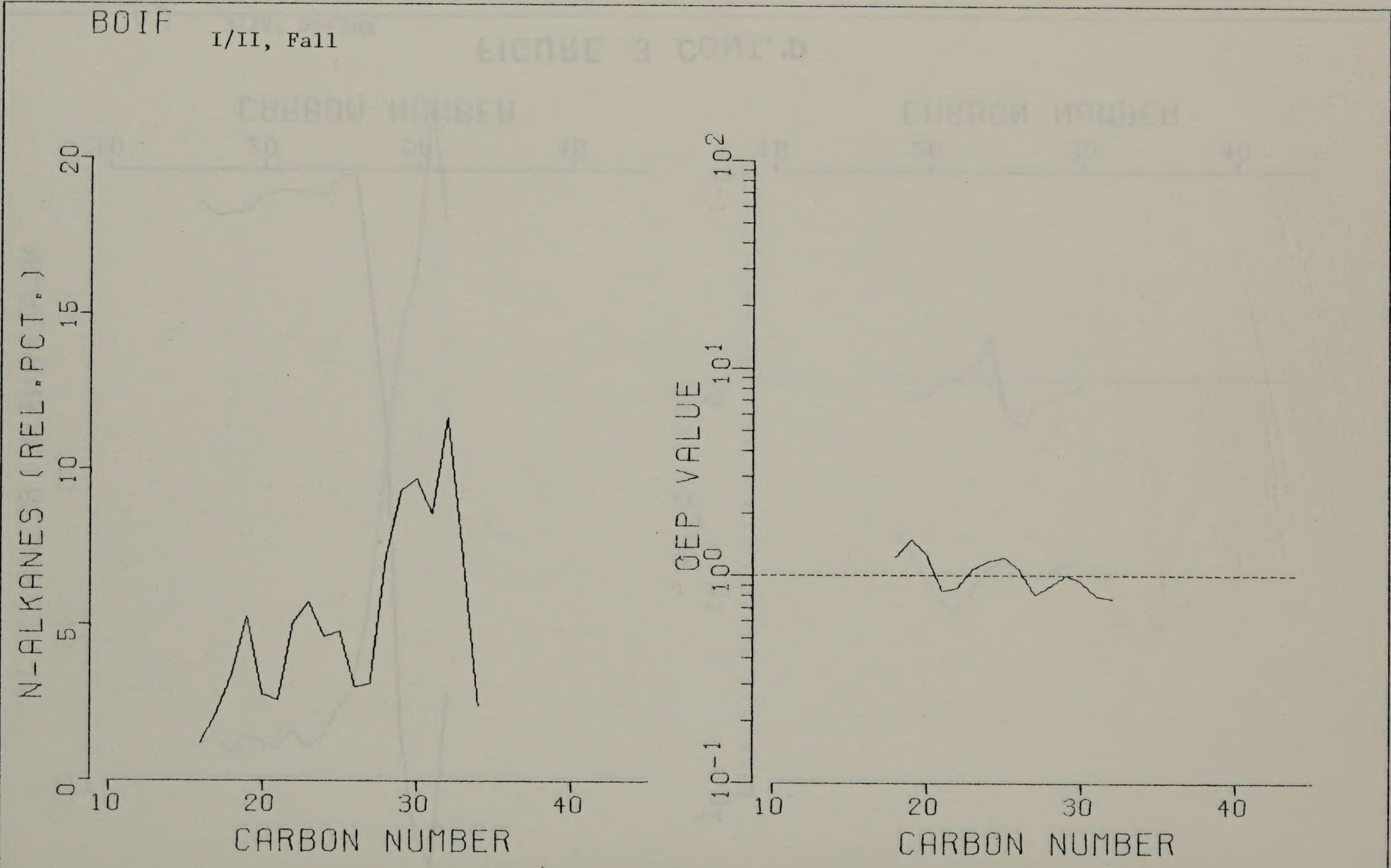

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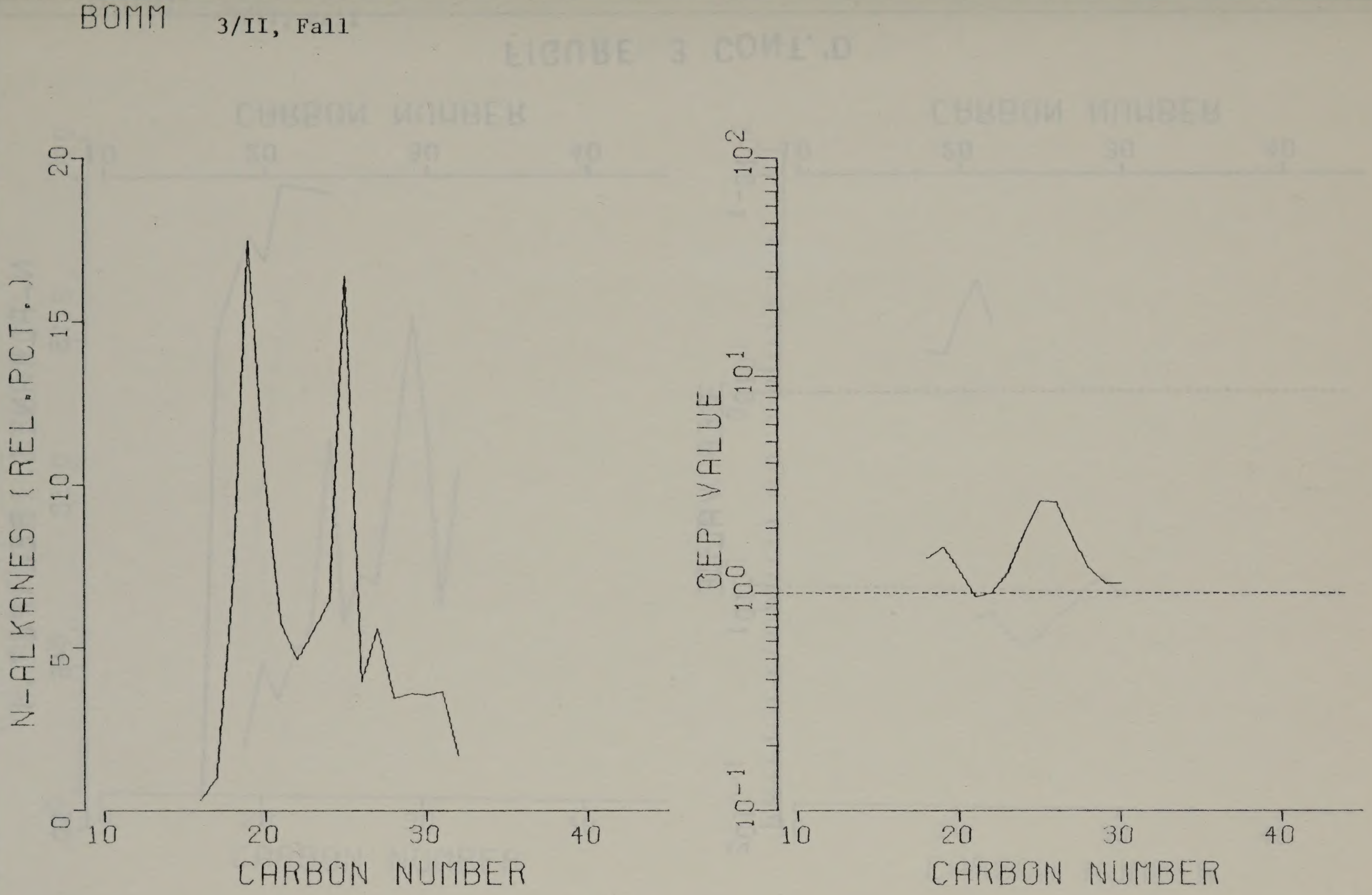

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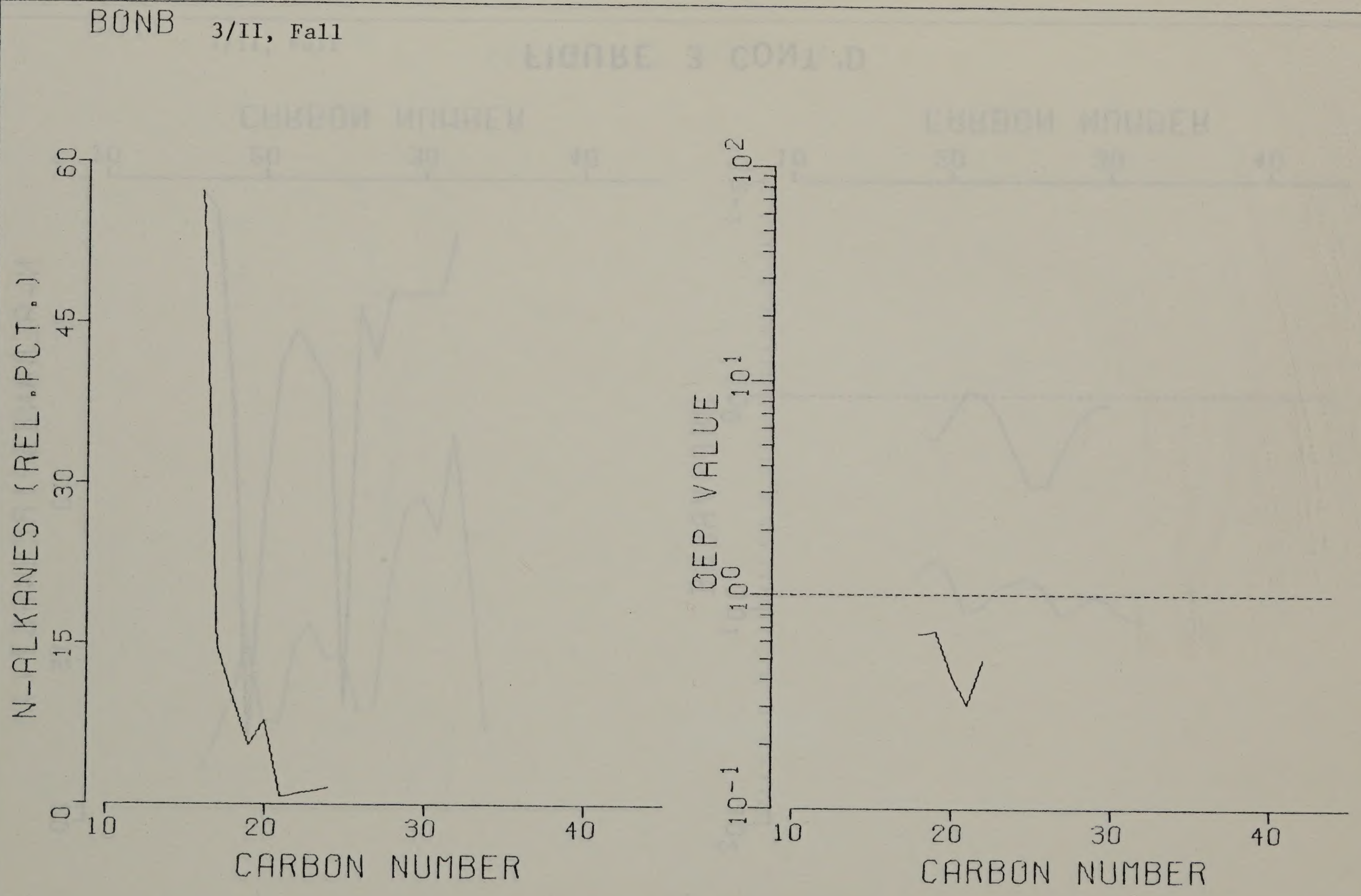

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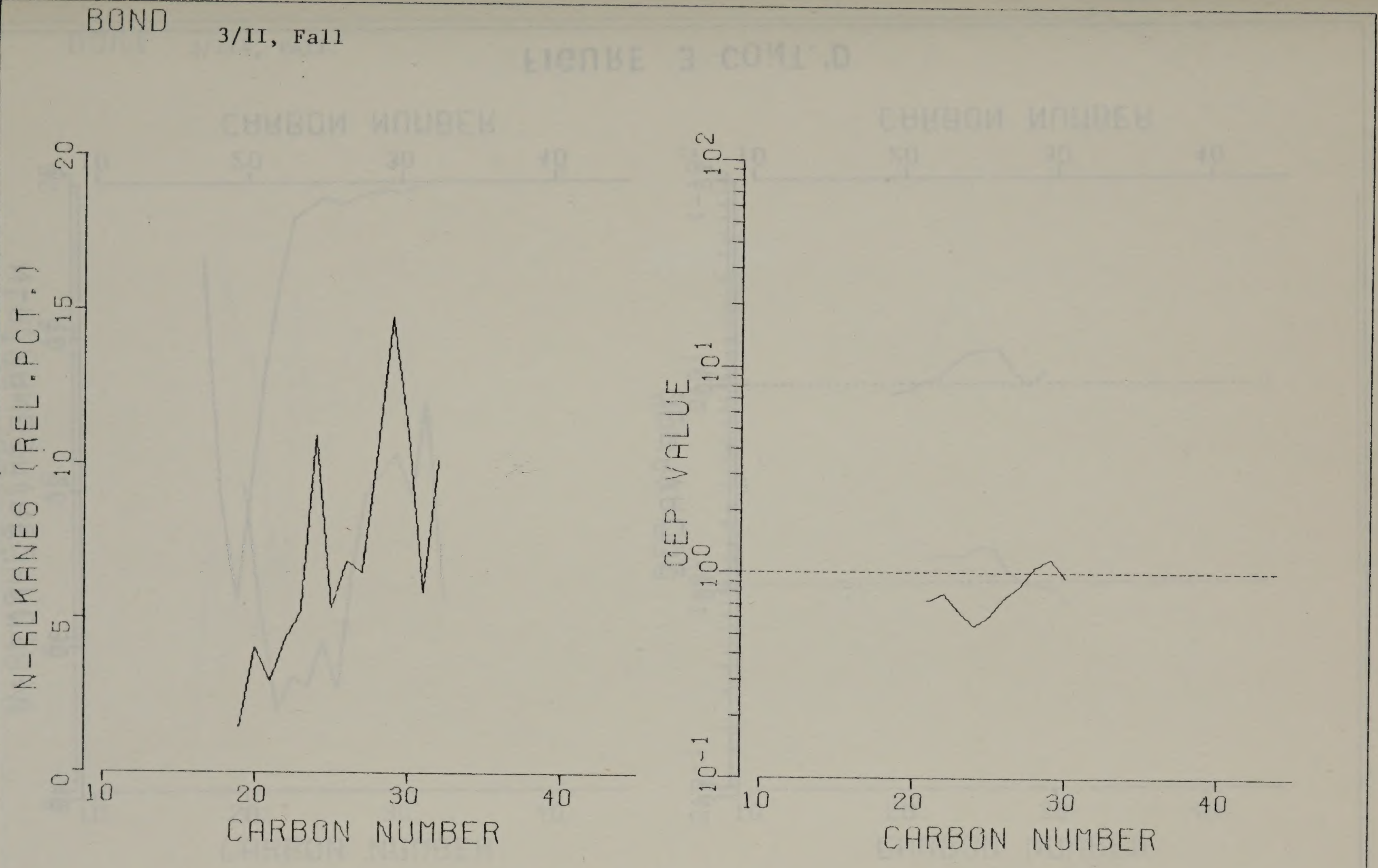

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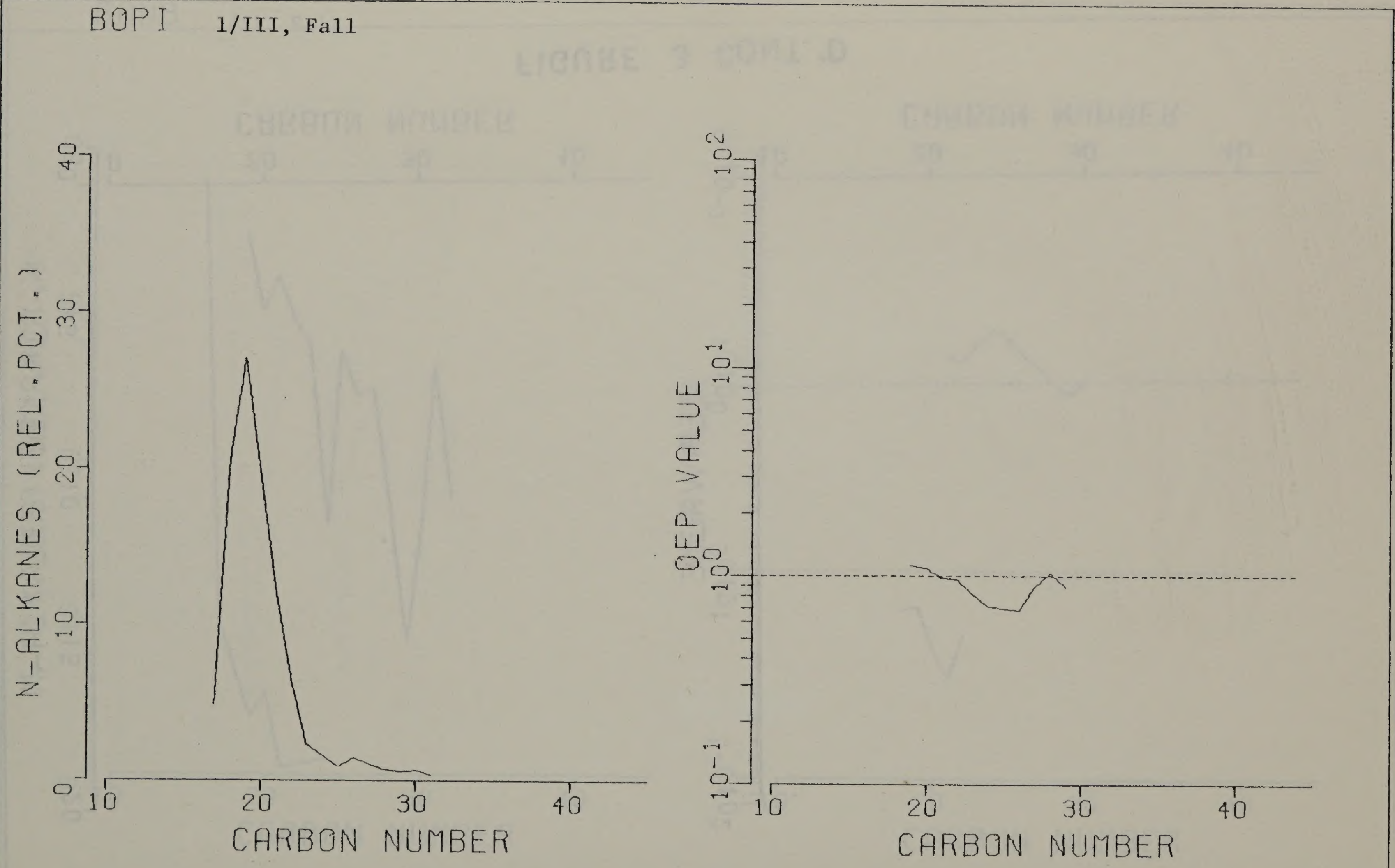

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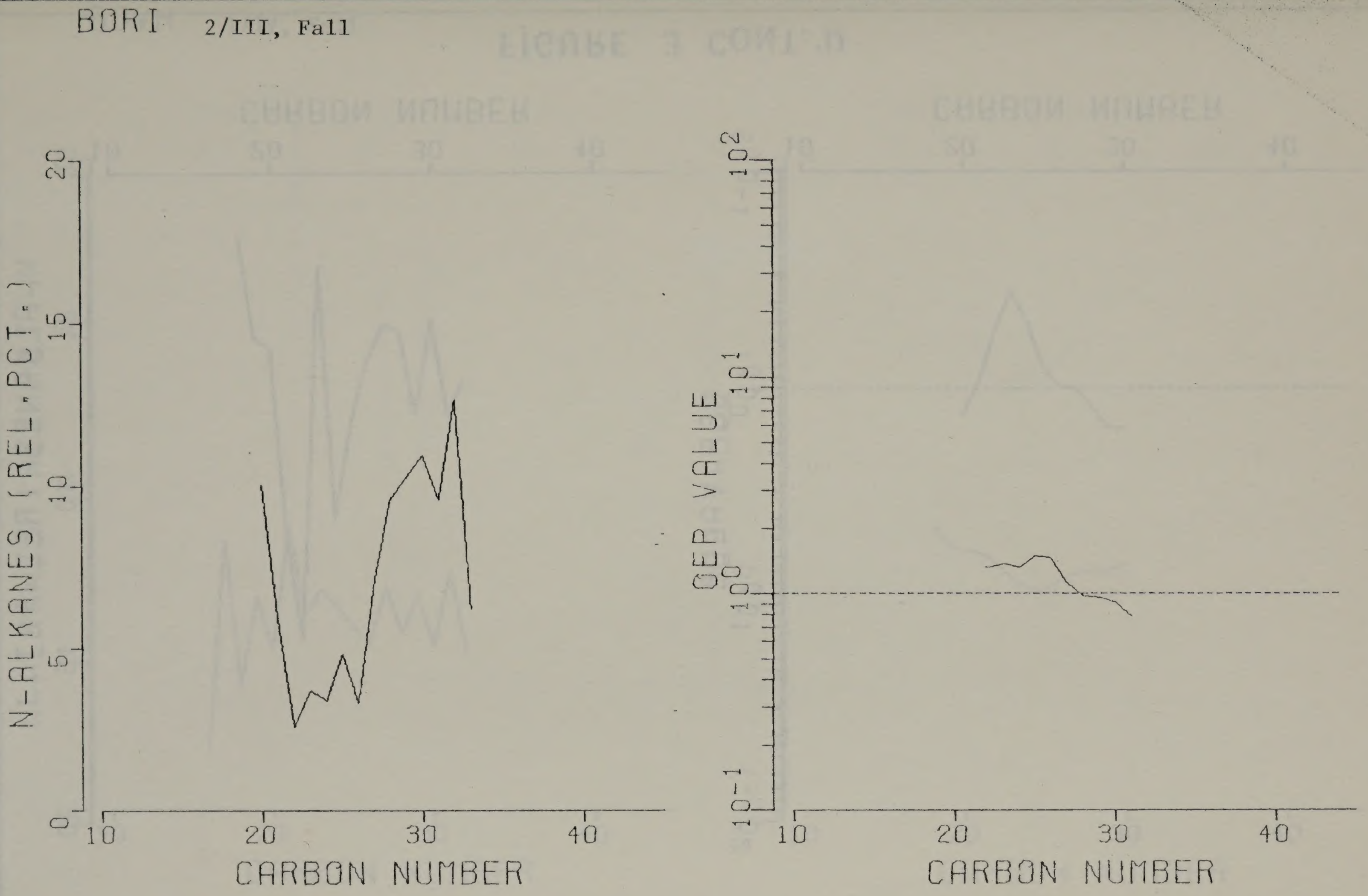

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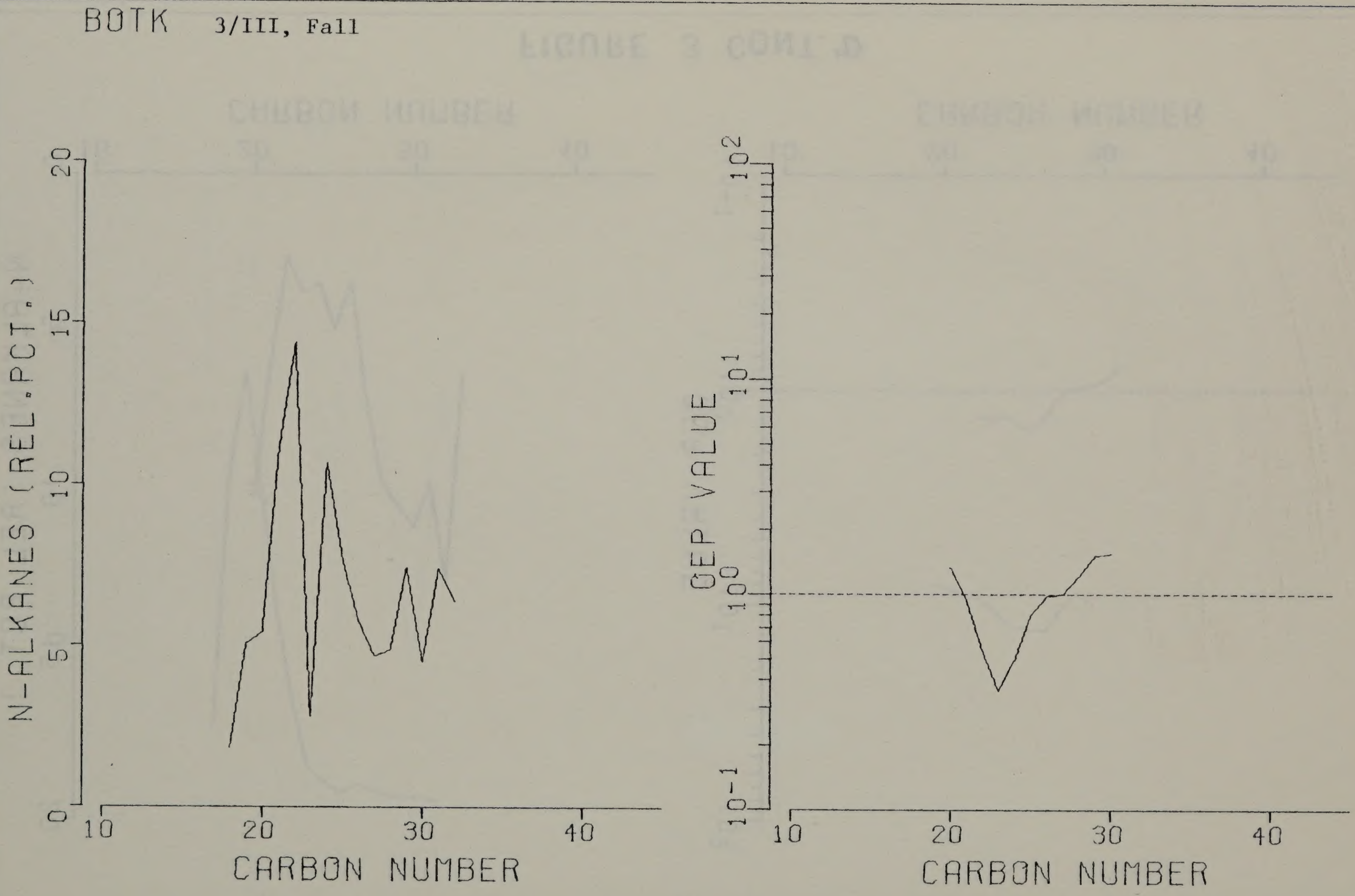

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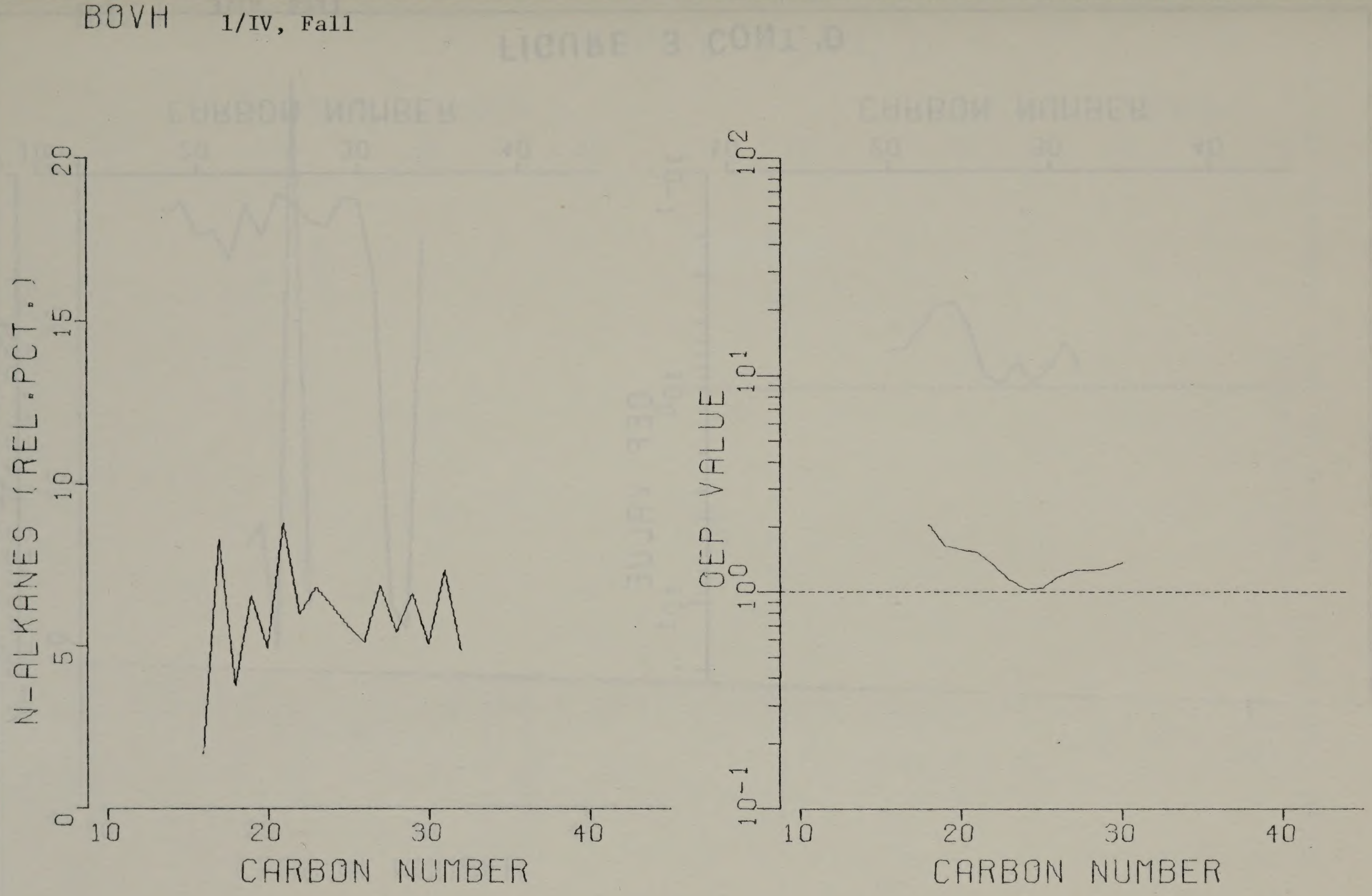

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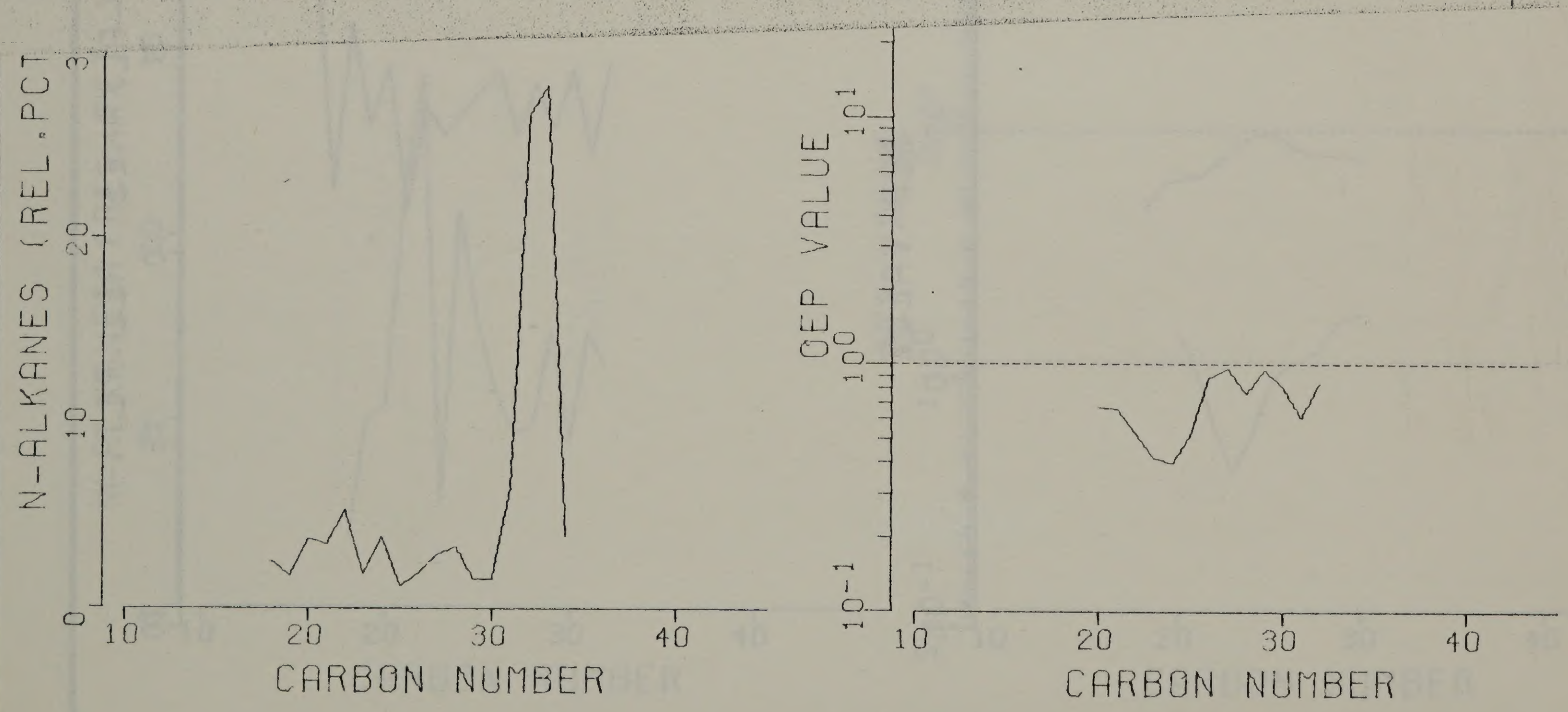

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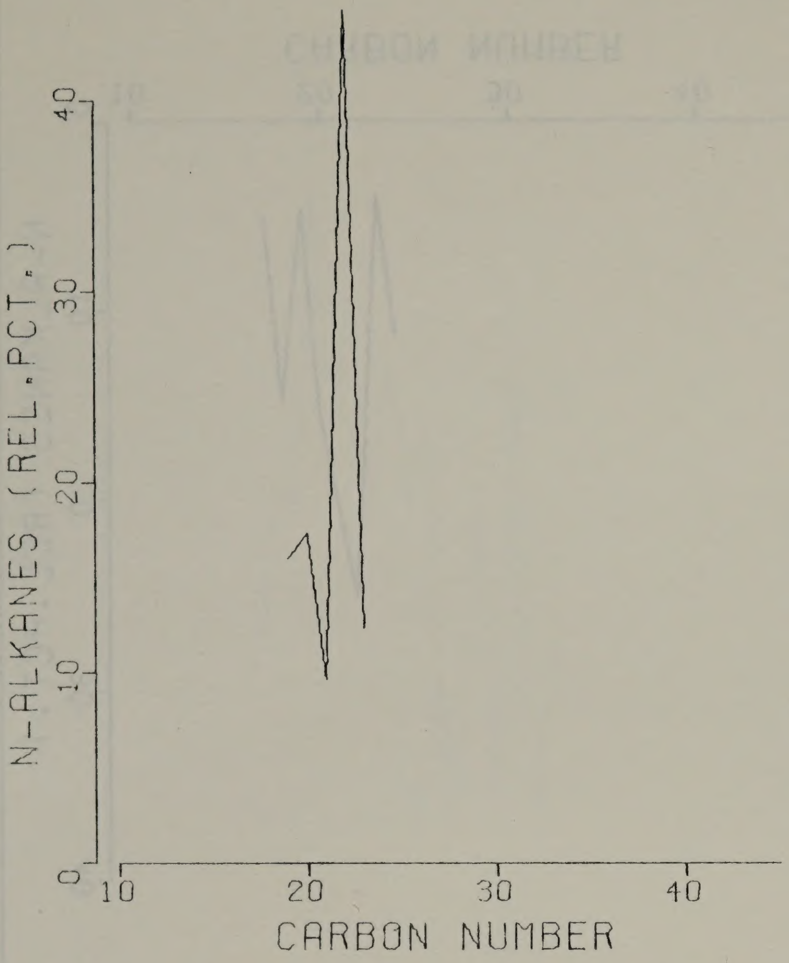
BOZJ 3/IV, Fall



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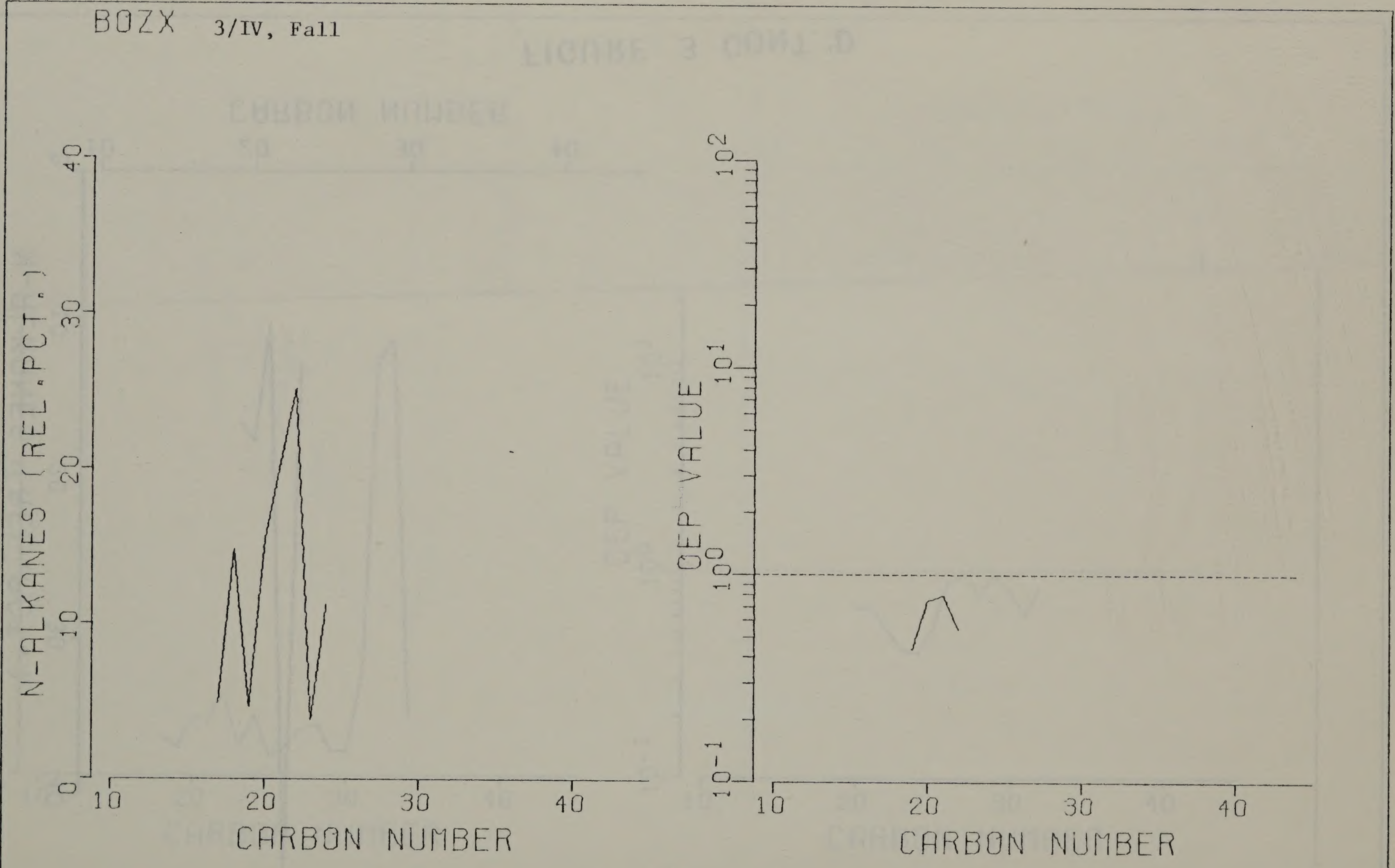

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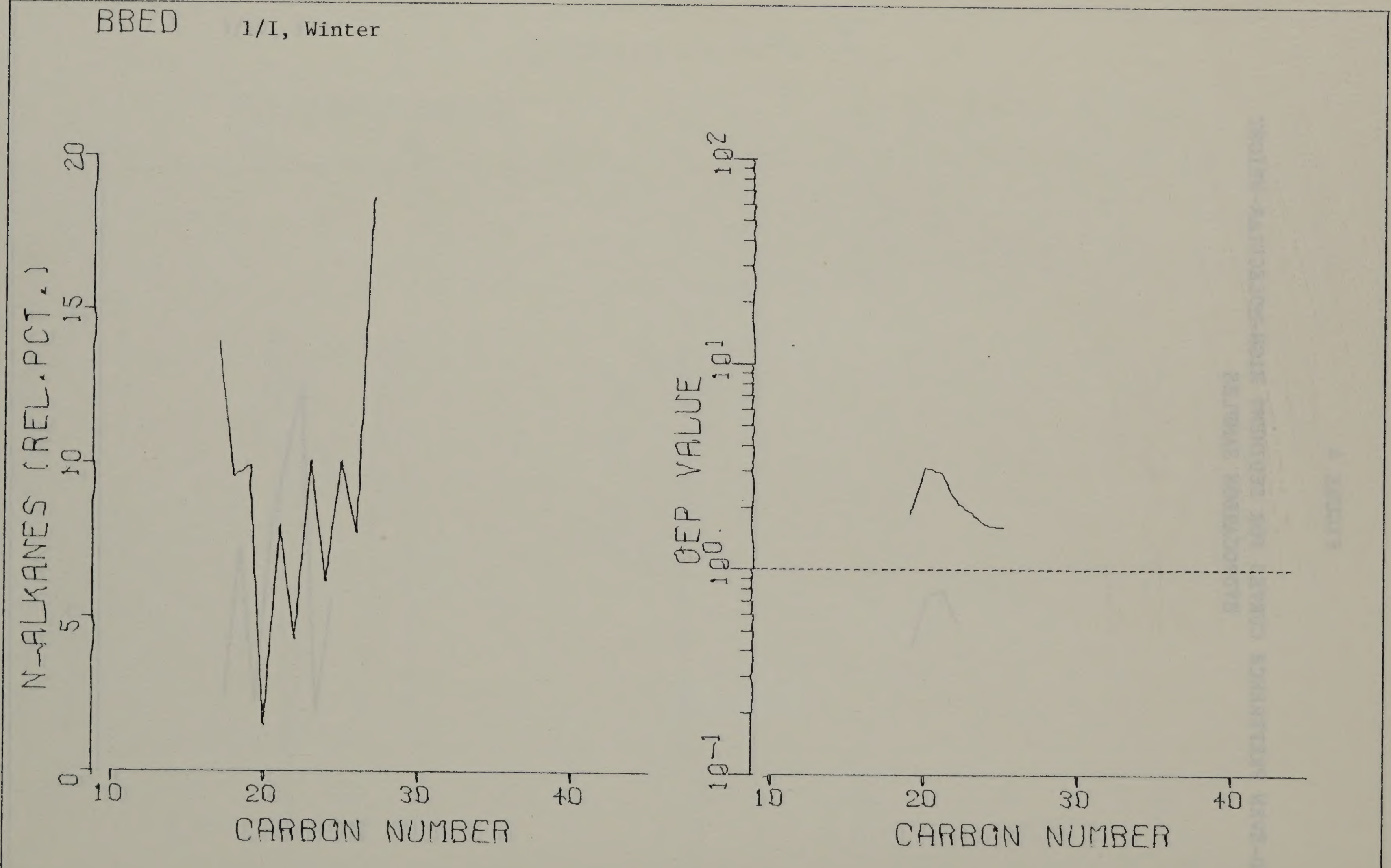
FIGURE 4

ODD-EVEN PREFERENCE CURVES FOR SEDIMENT HIGH-MOLECULAR-WEIGHT HYDROCARBON SAMPLES



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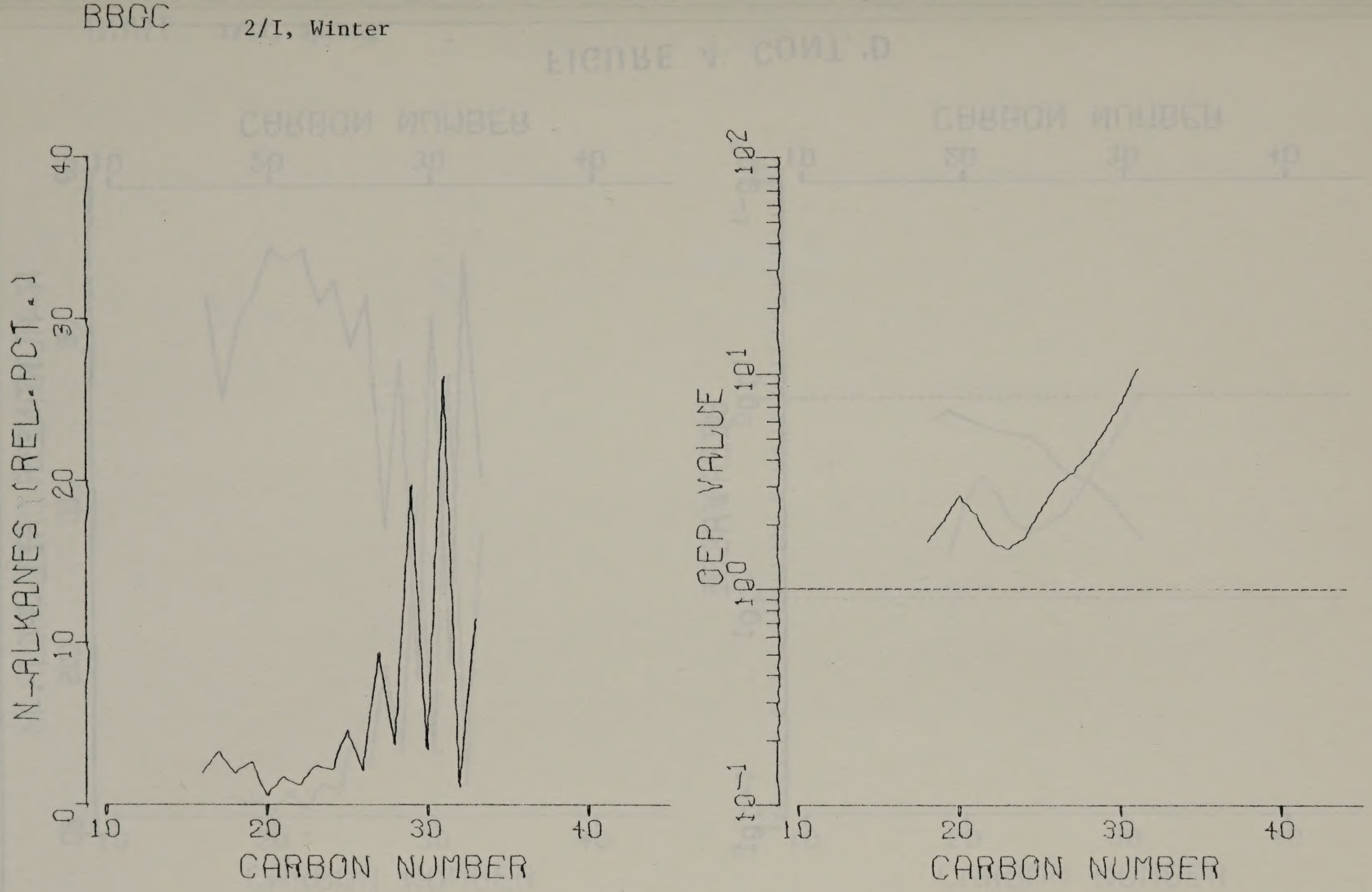

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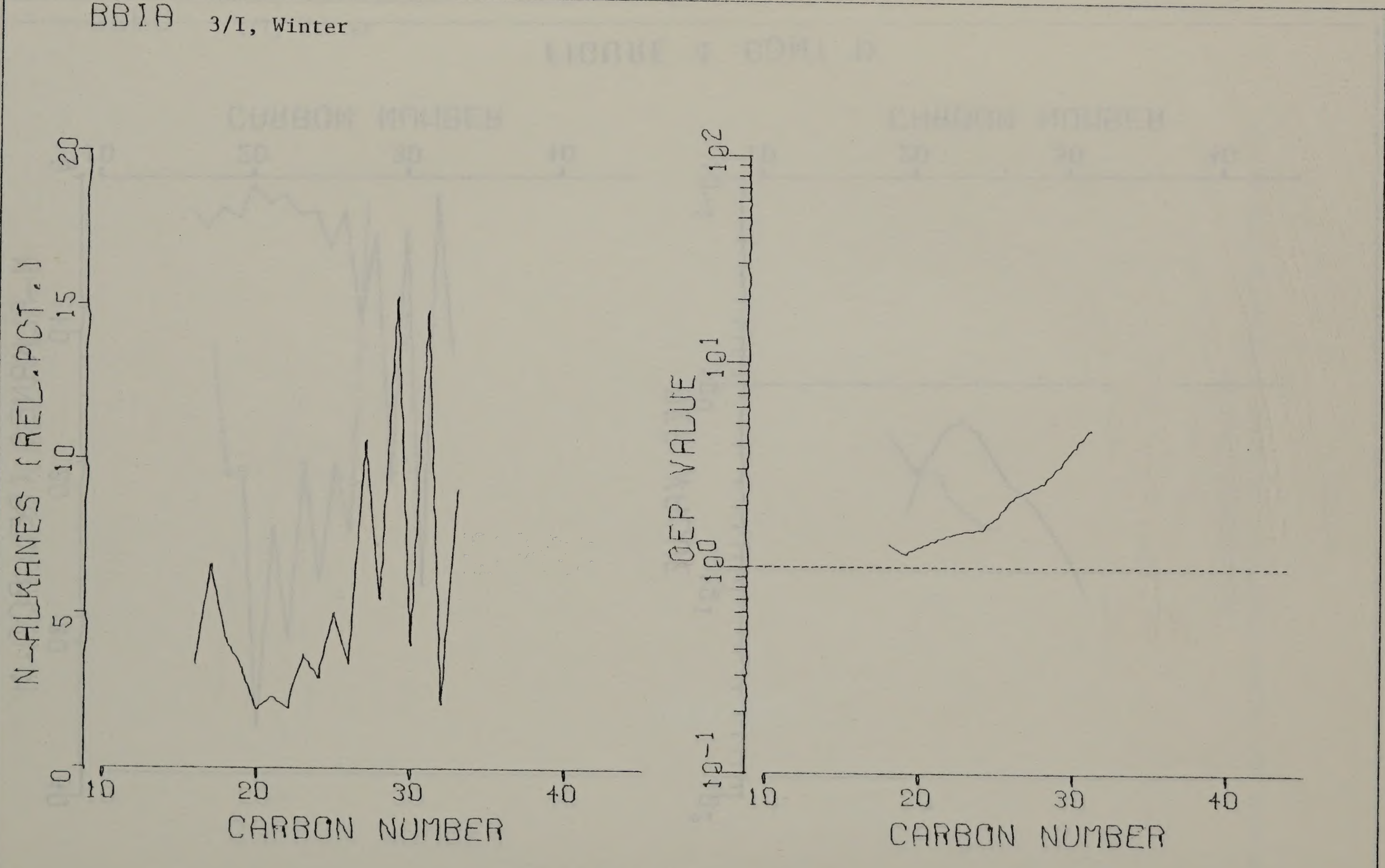

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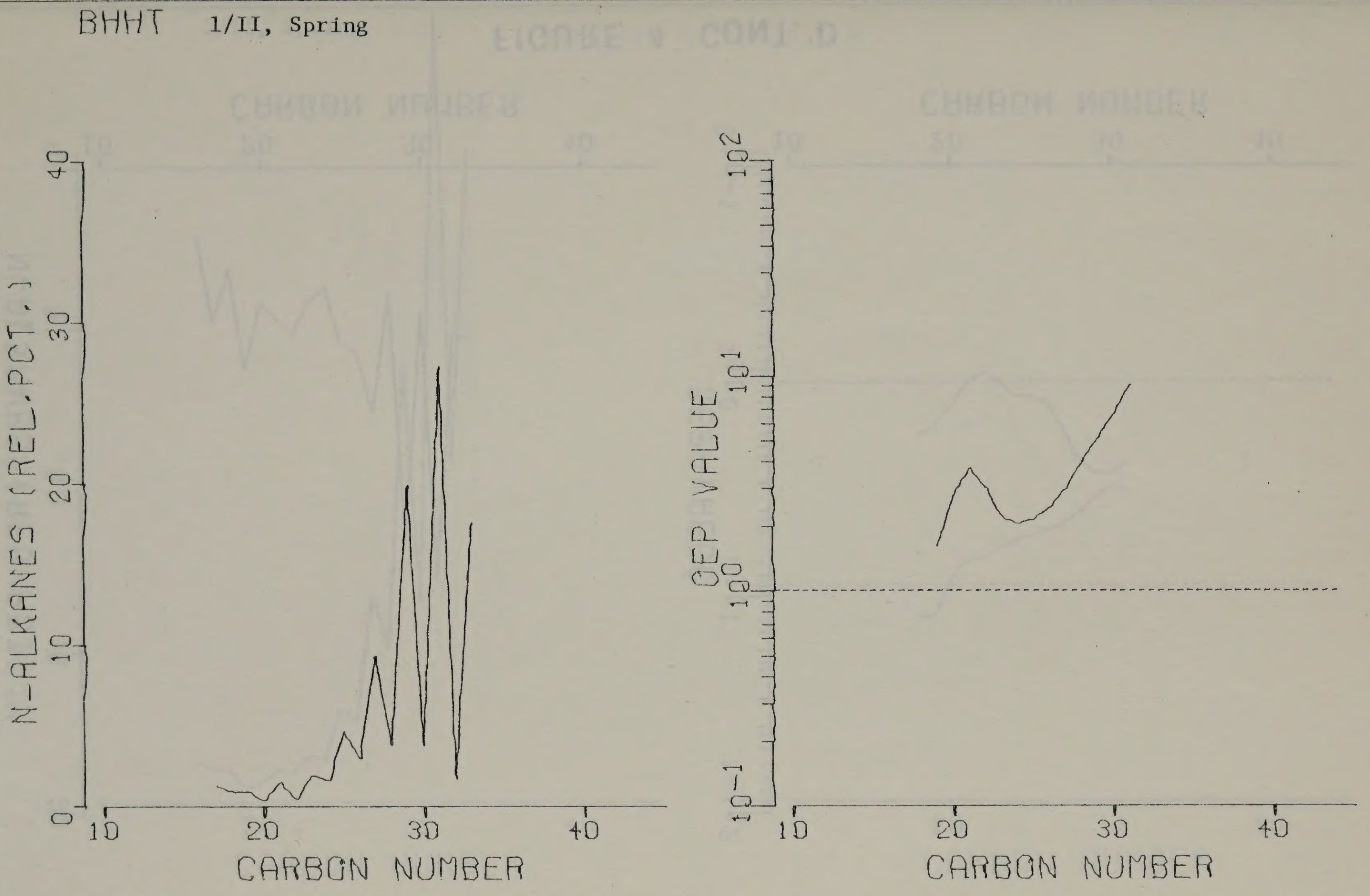

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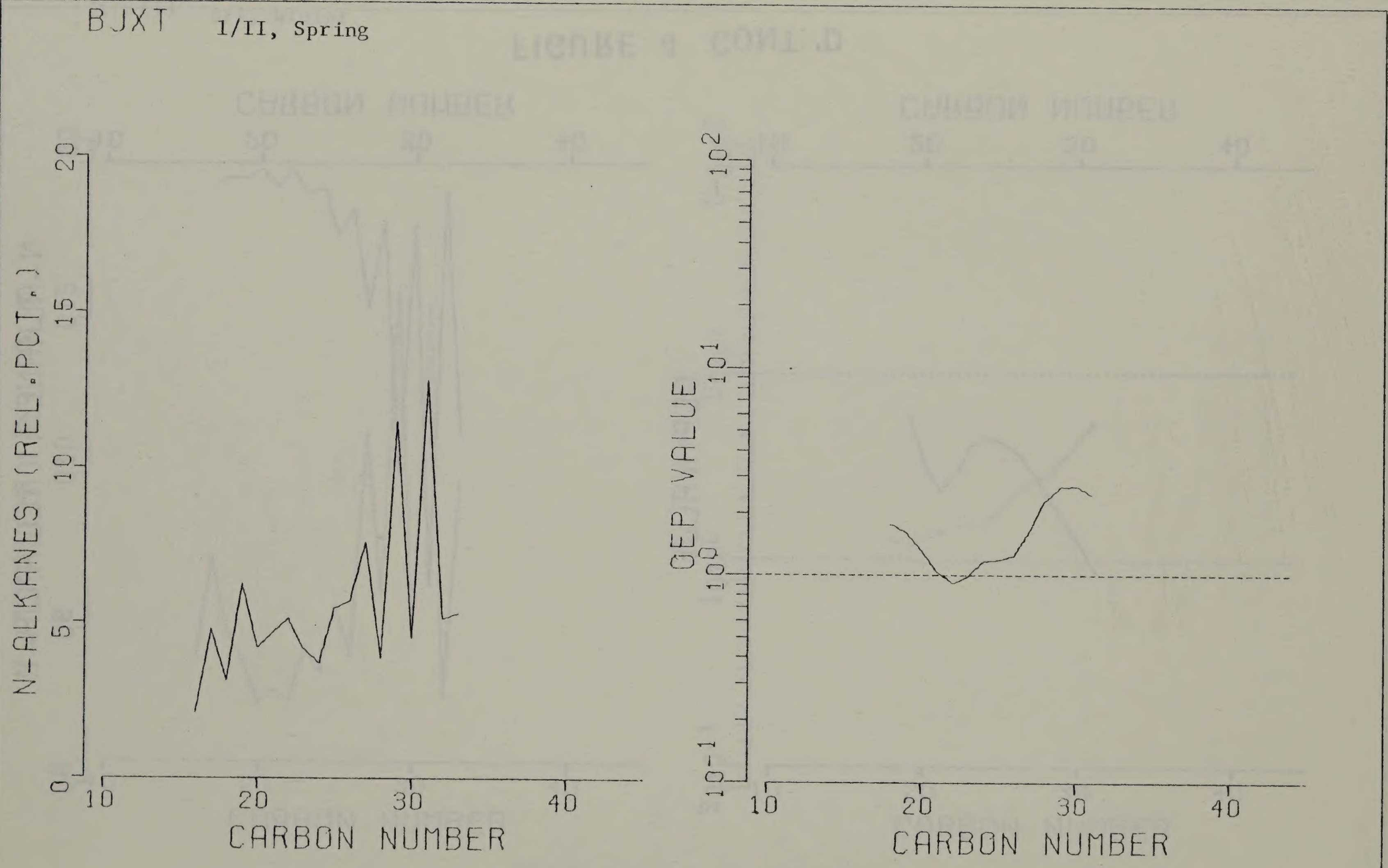

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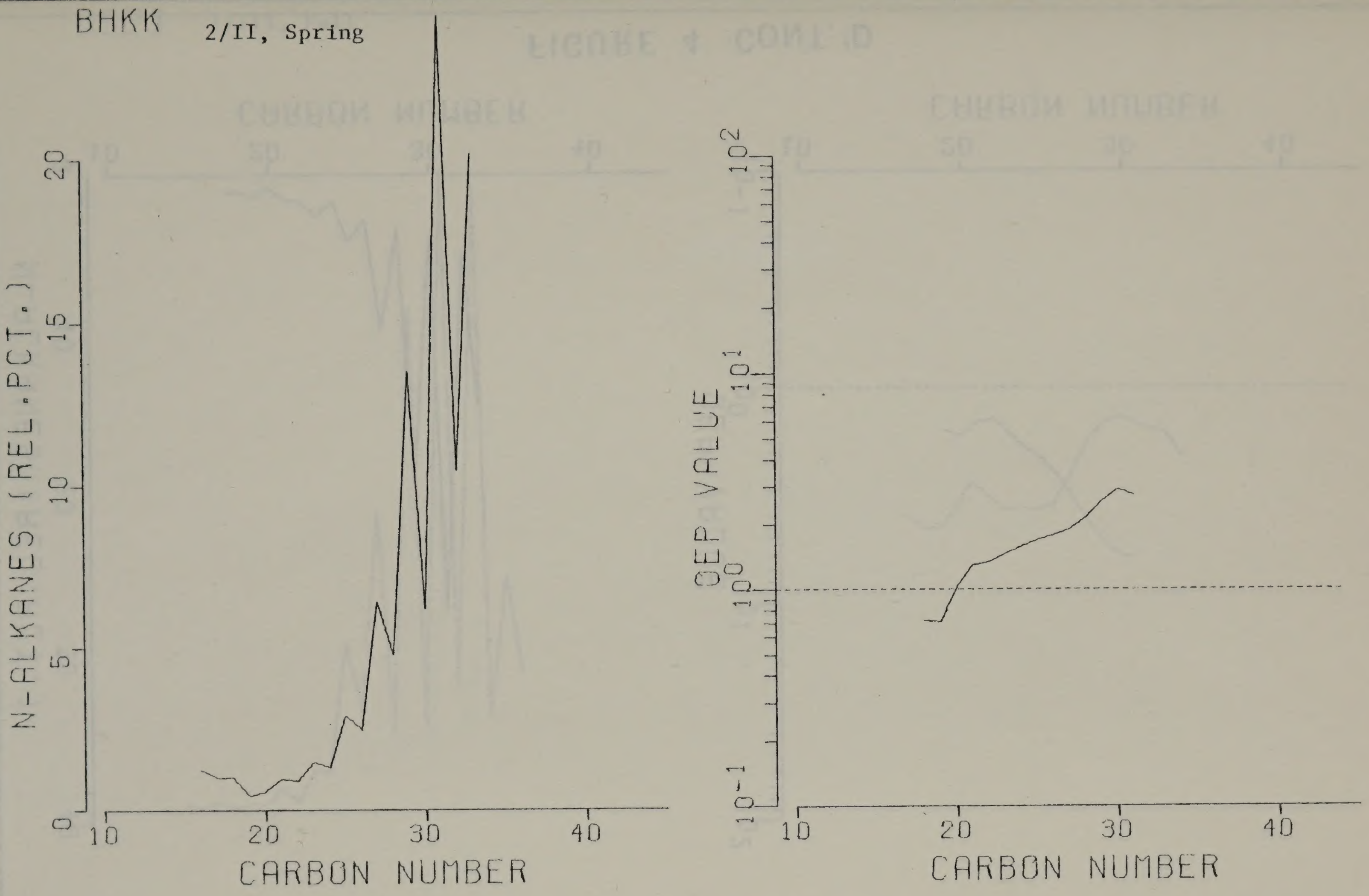

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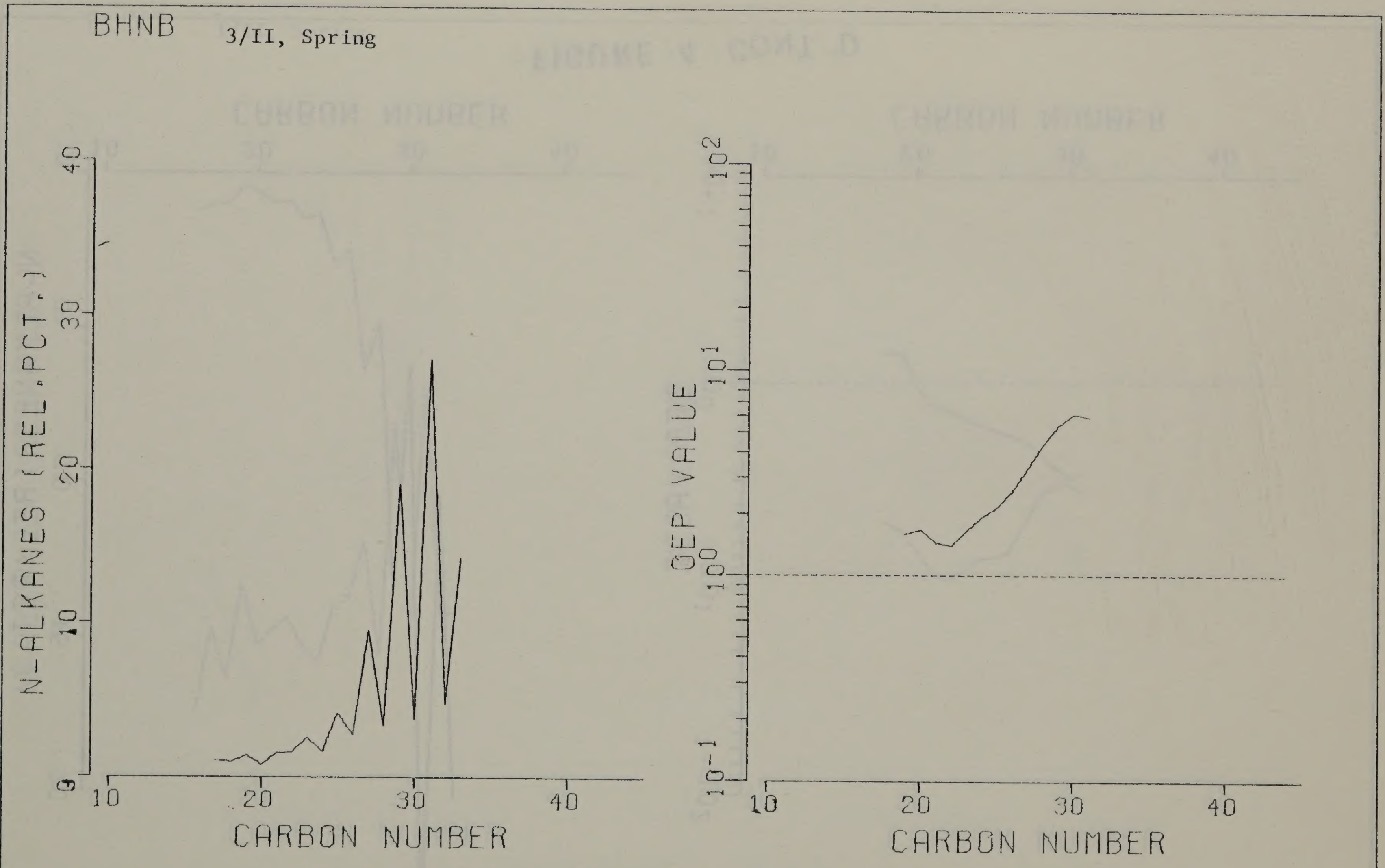

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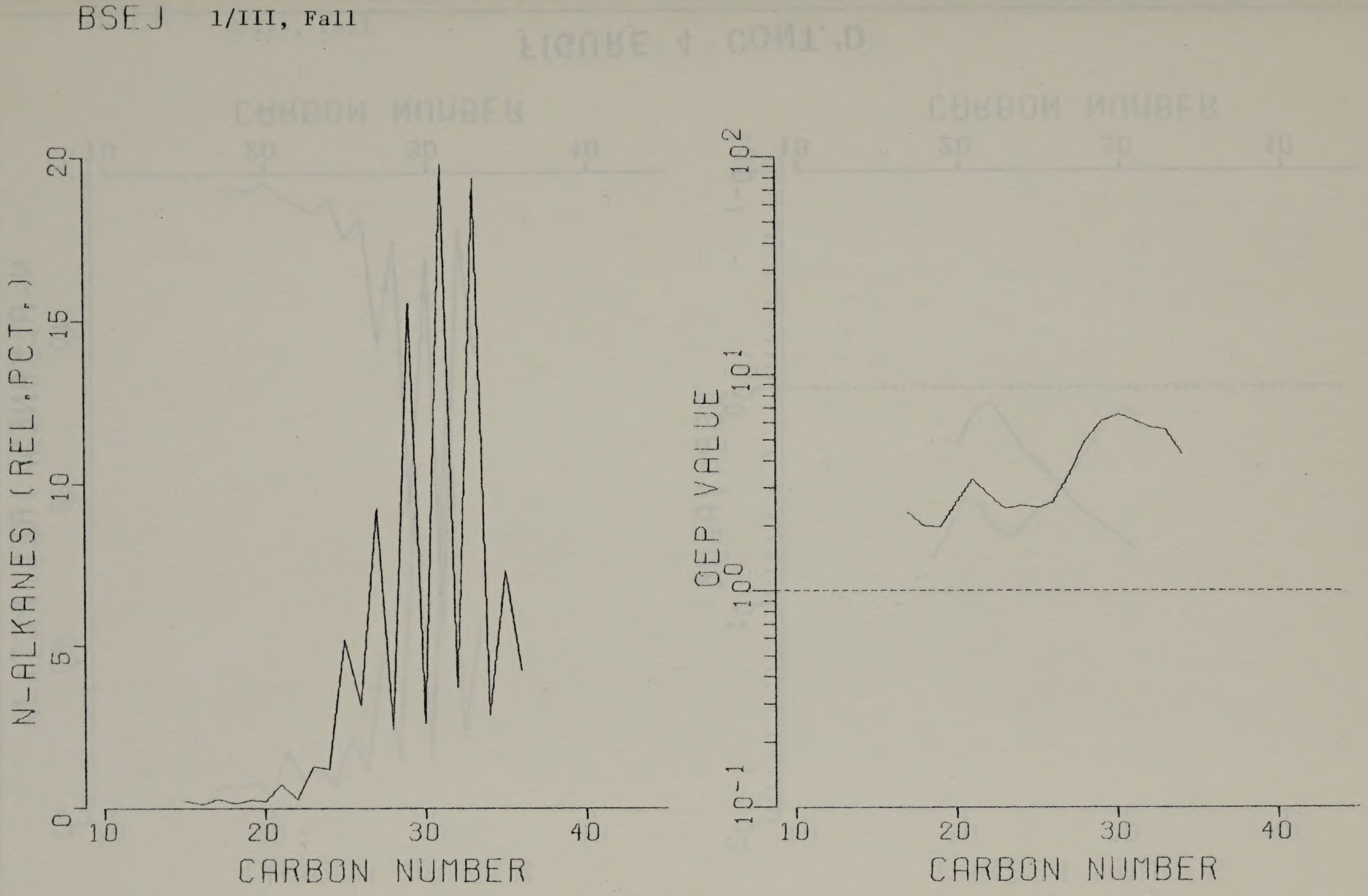

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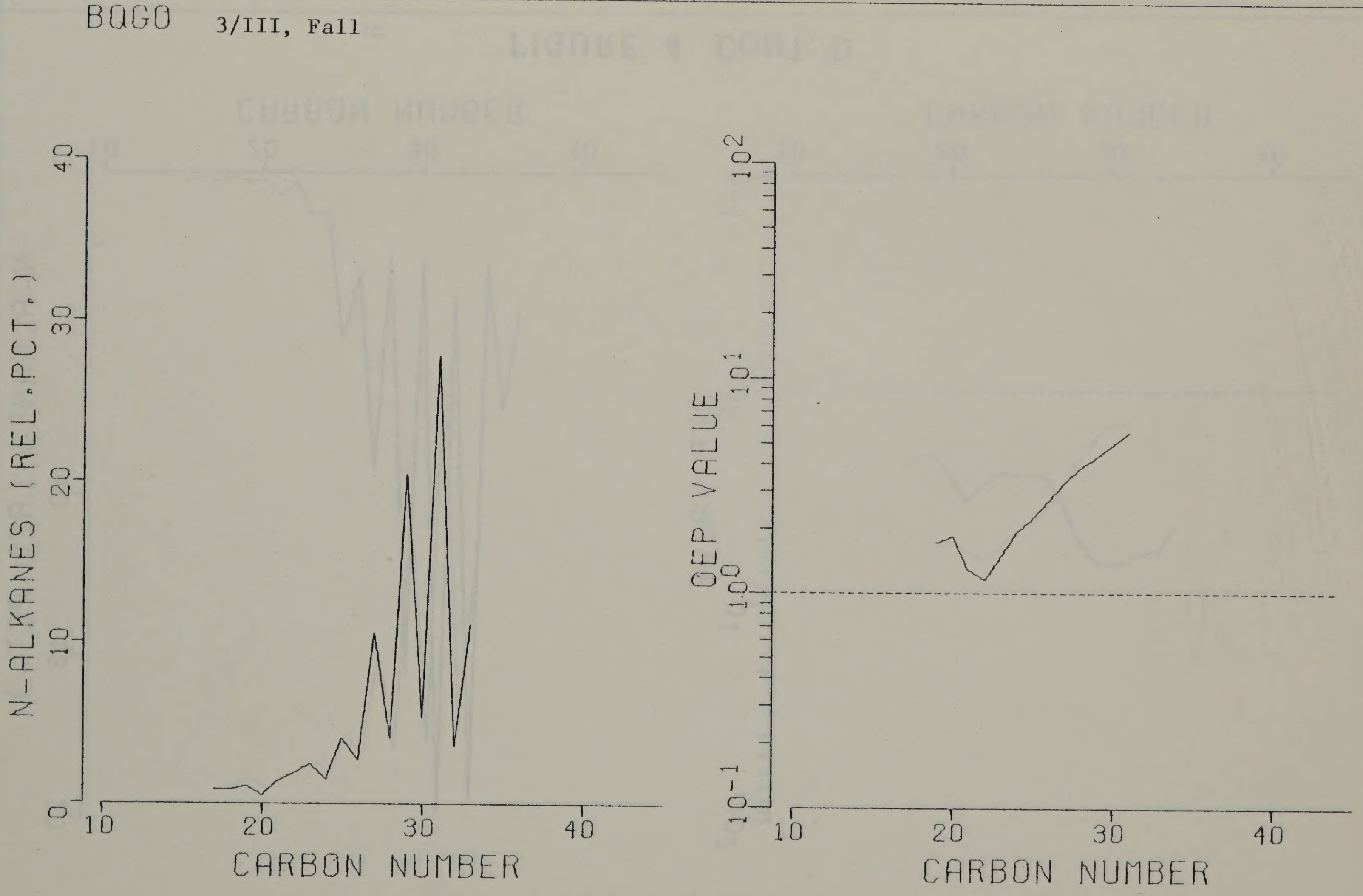

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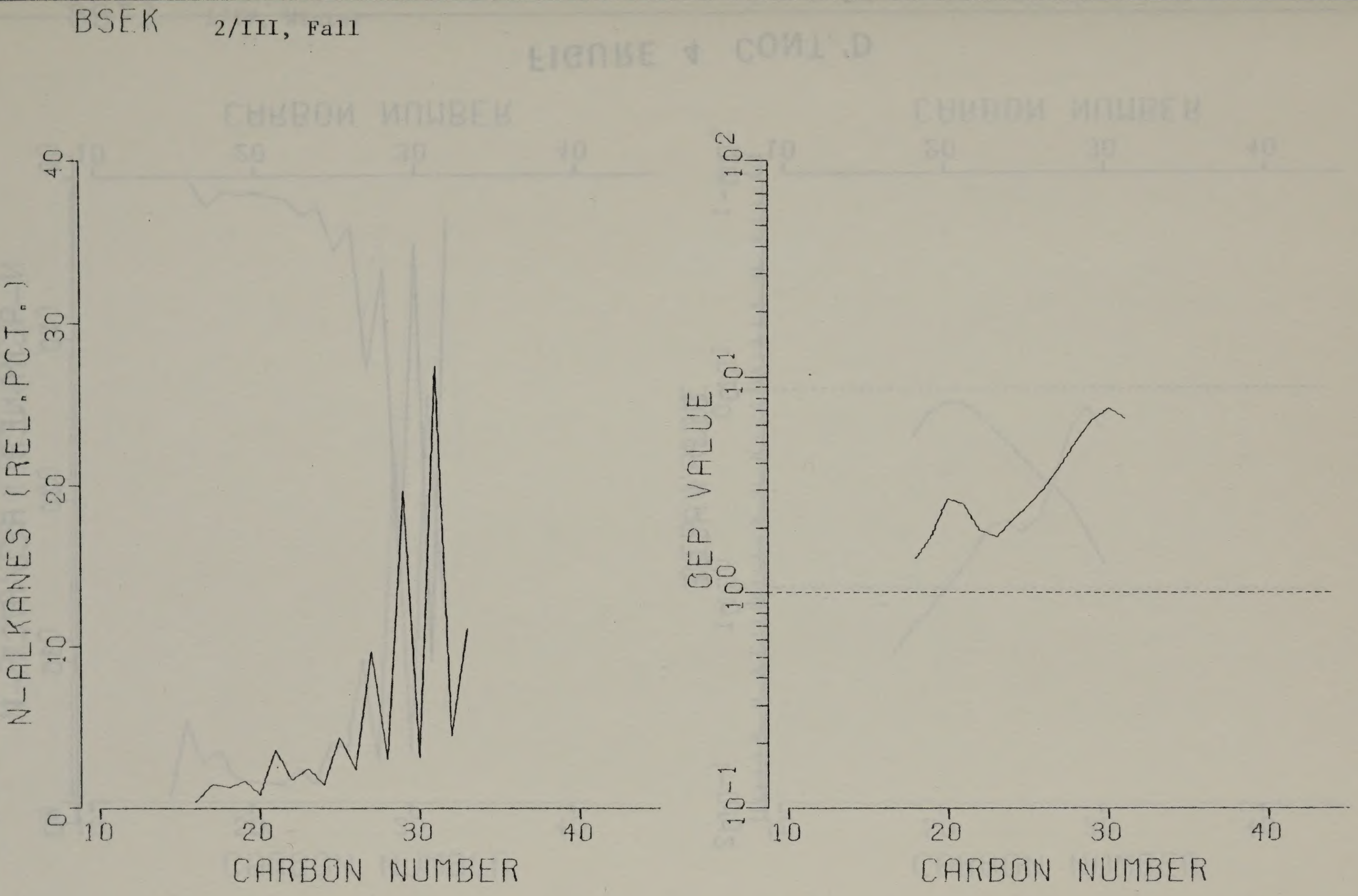

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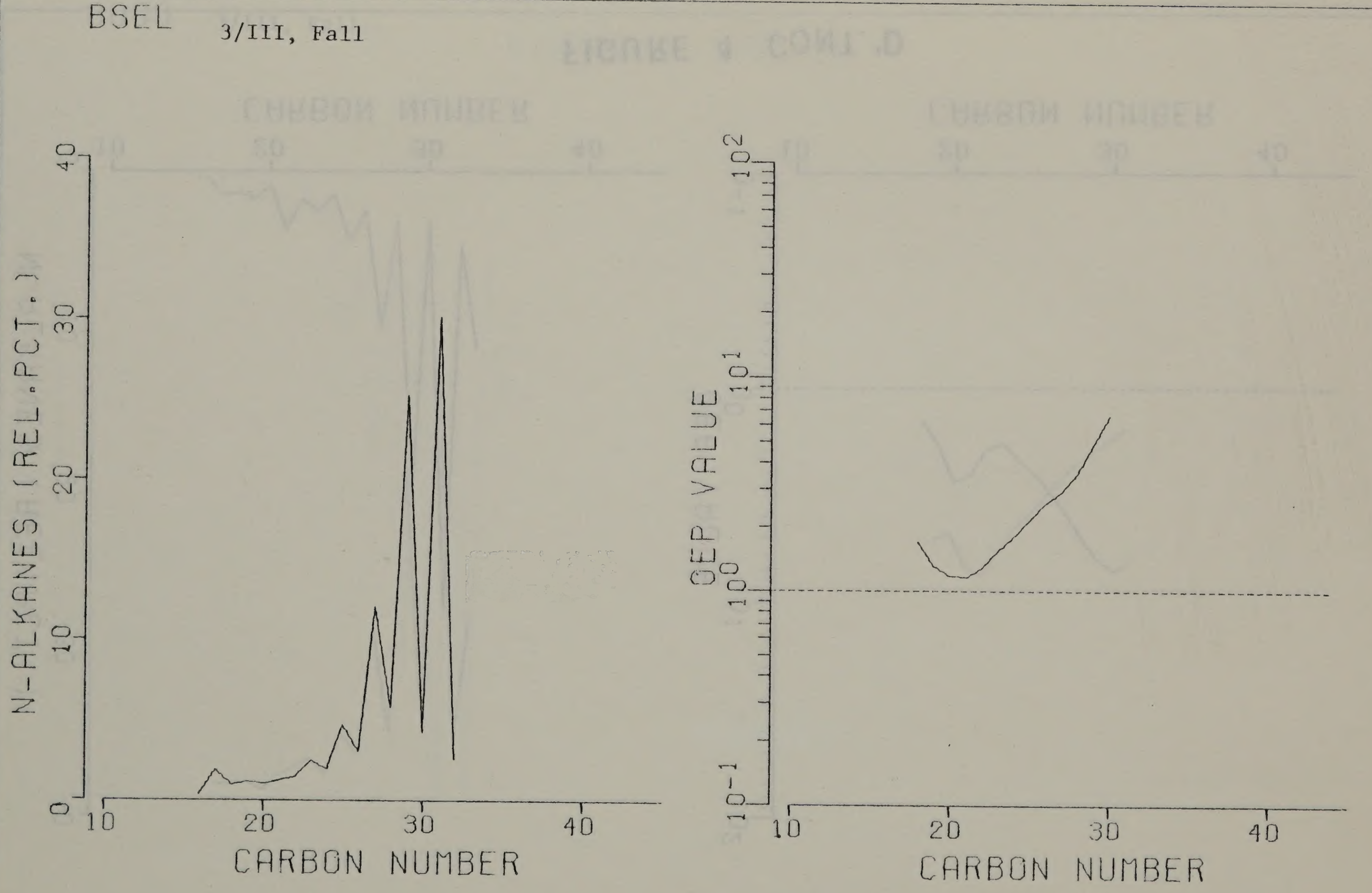

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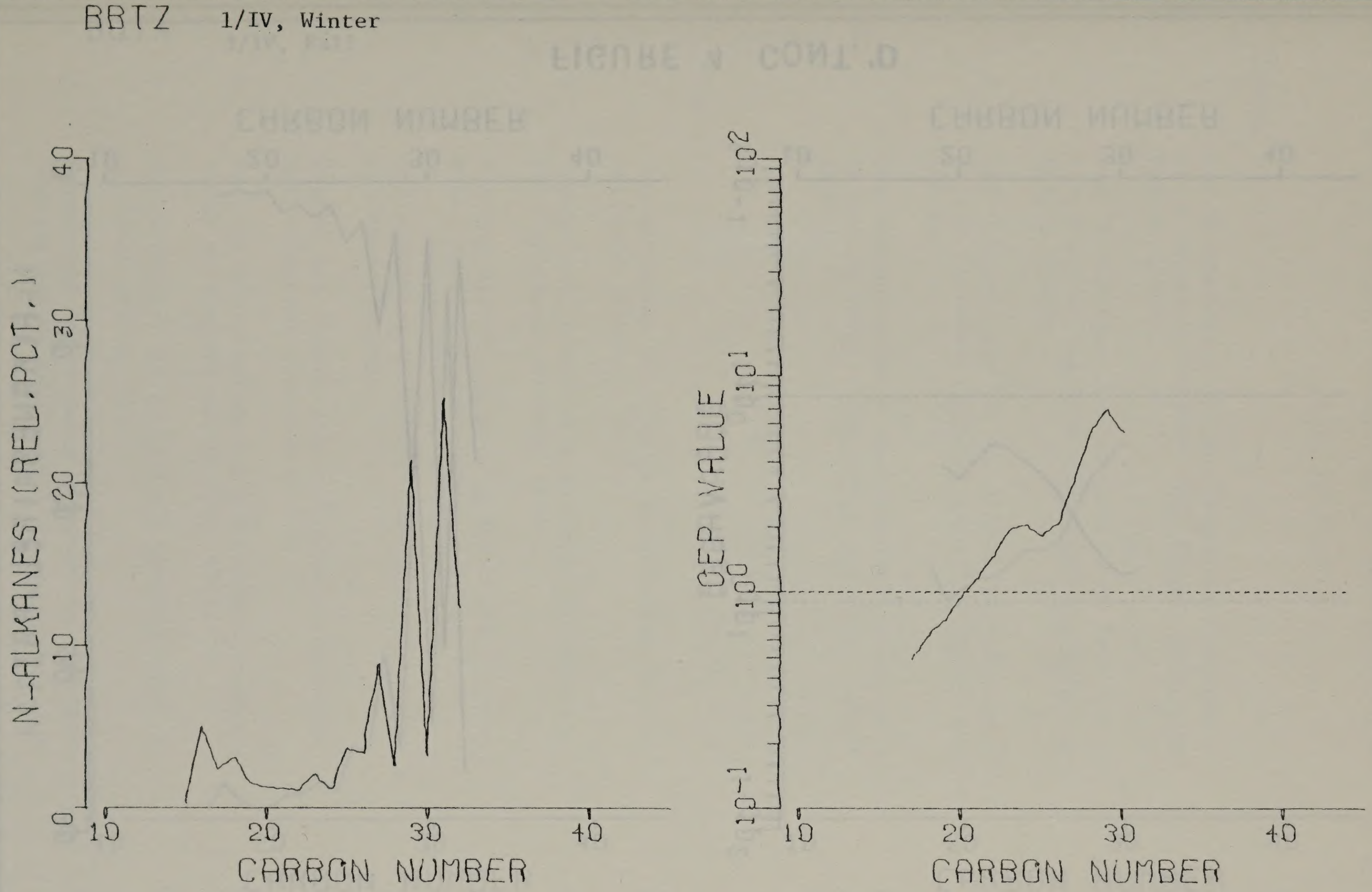
BBTZ 1/IV, Winter



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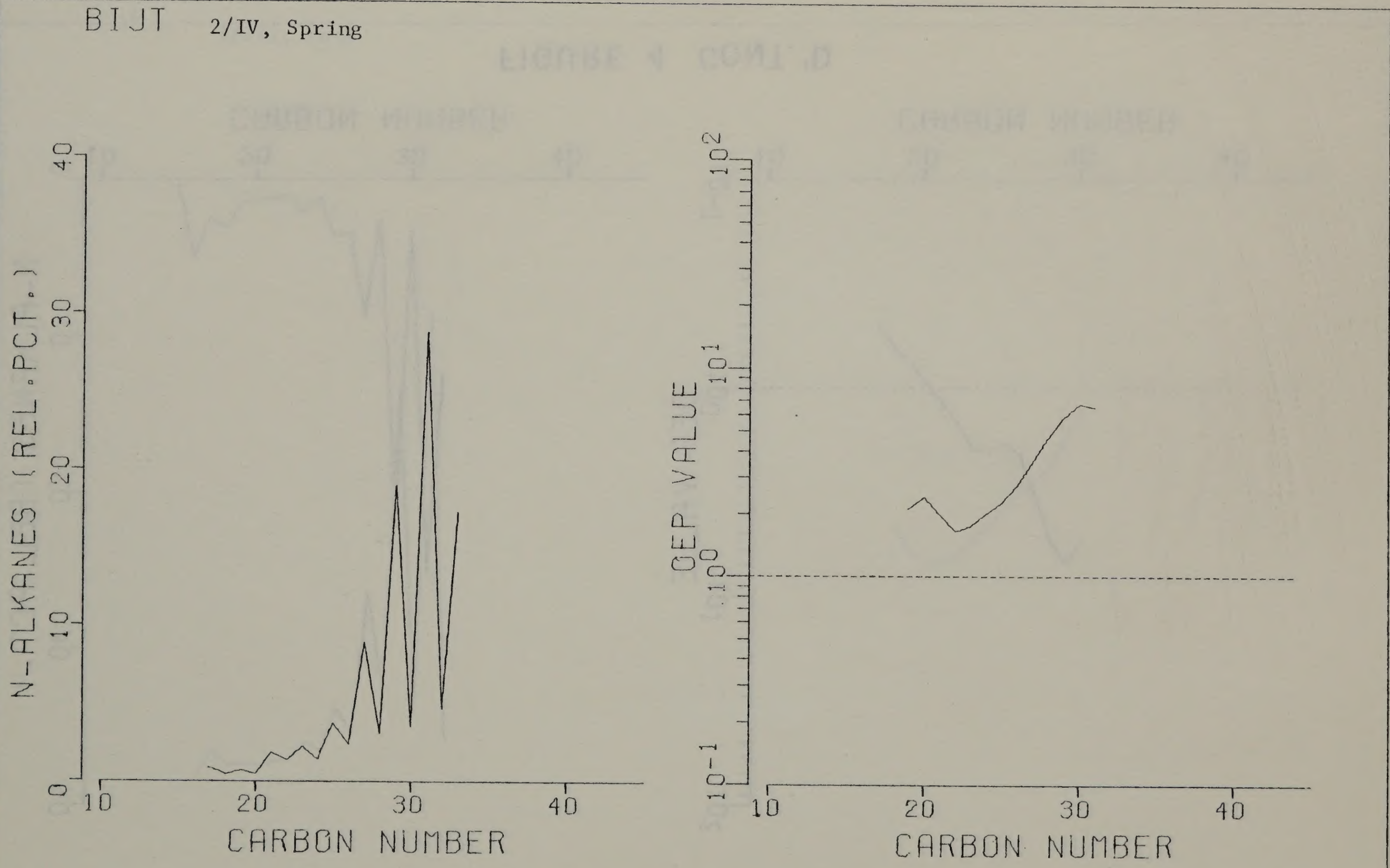

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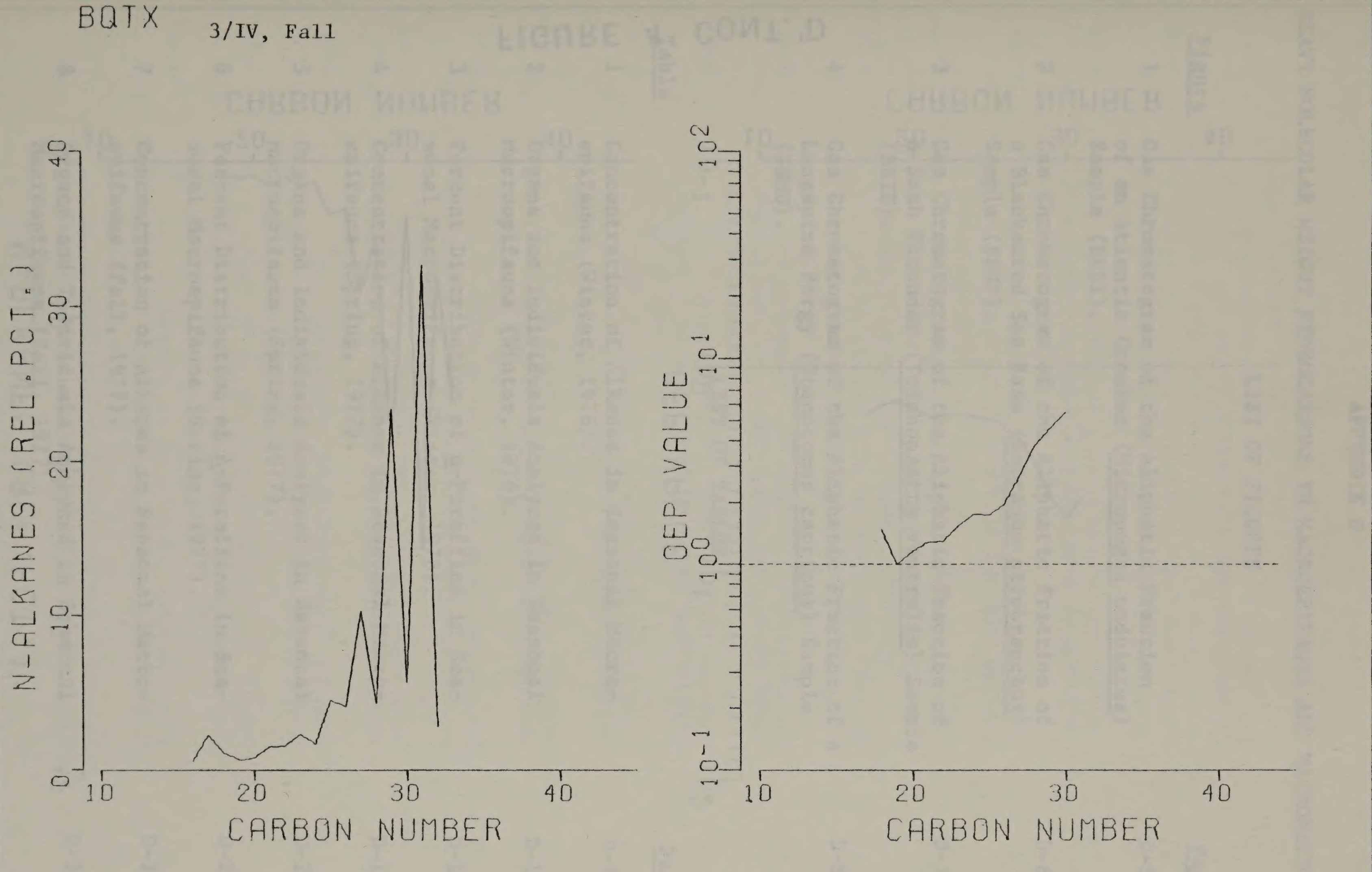

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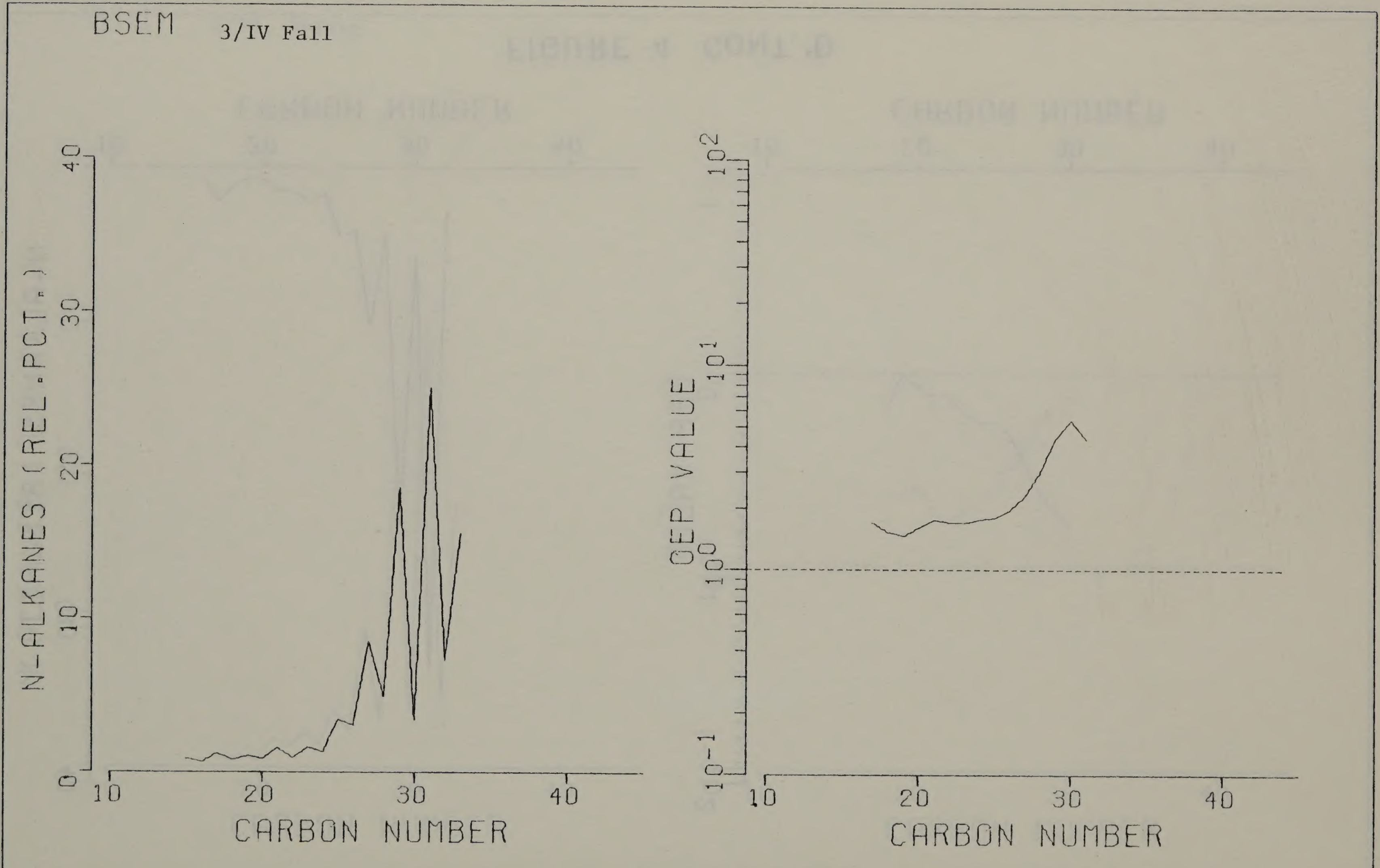

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APPENDIX D

HEAVY MOLECULAR WEIGHT HYDROCARBONS IN MACROEPIFAUNA AND MACRONEKTON

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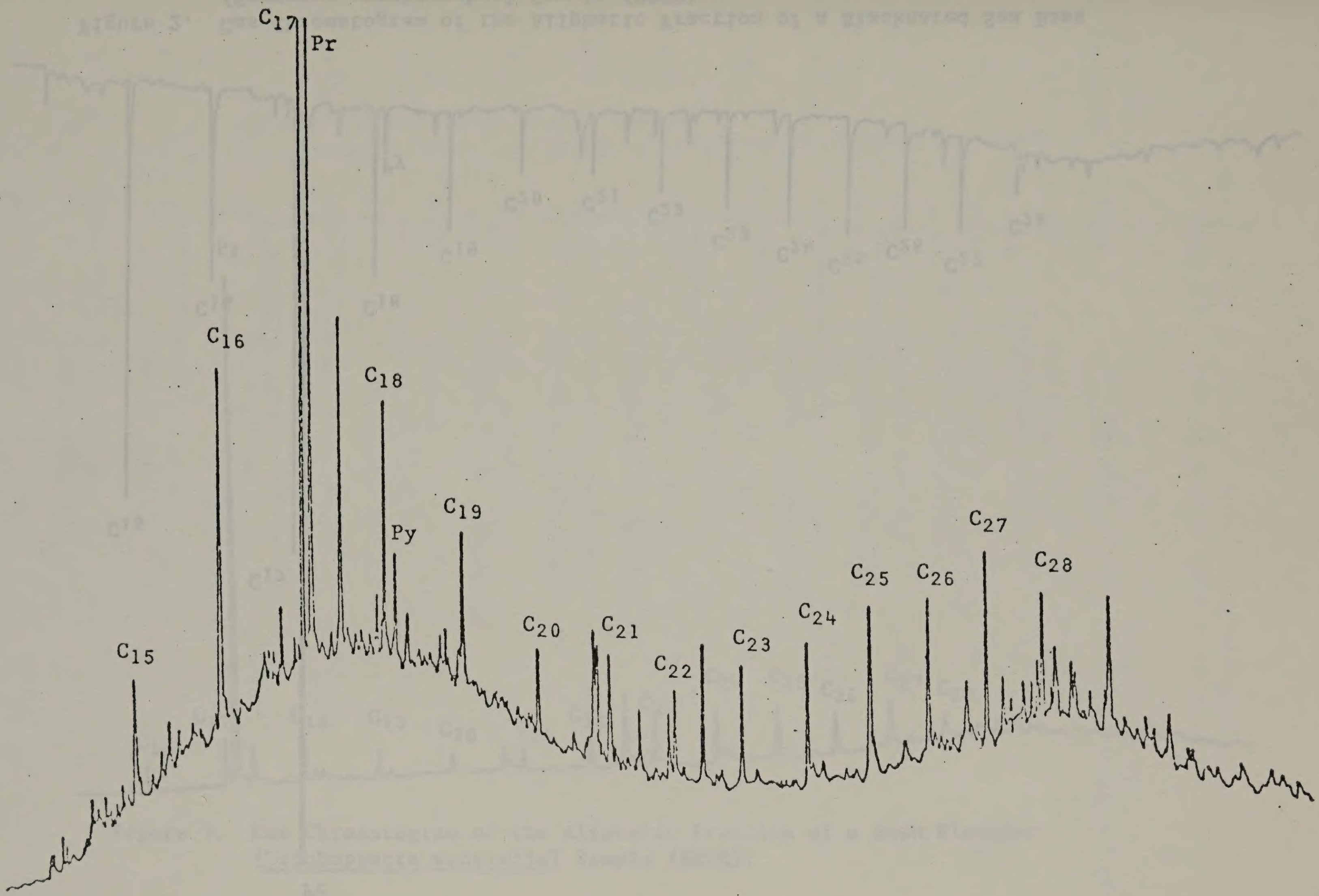
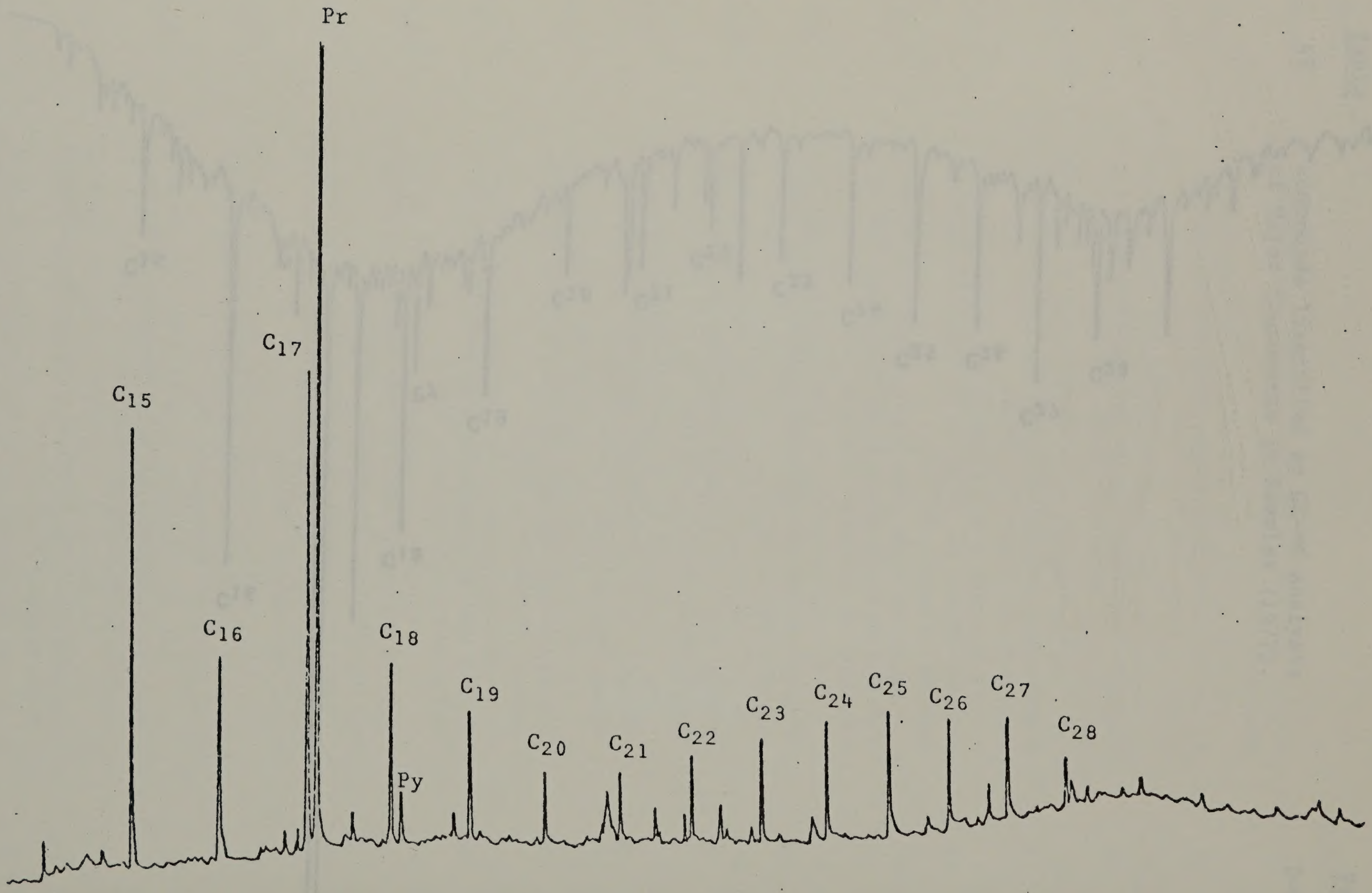


Figure 1. Gas Chromatogram of the Aliphatic Fraction of an Atlantic Croaker (Micropogon undulatus) Sample (BBEI).



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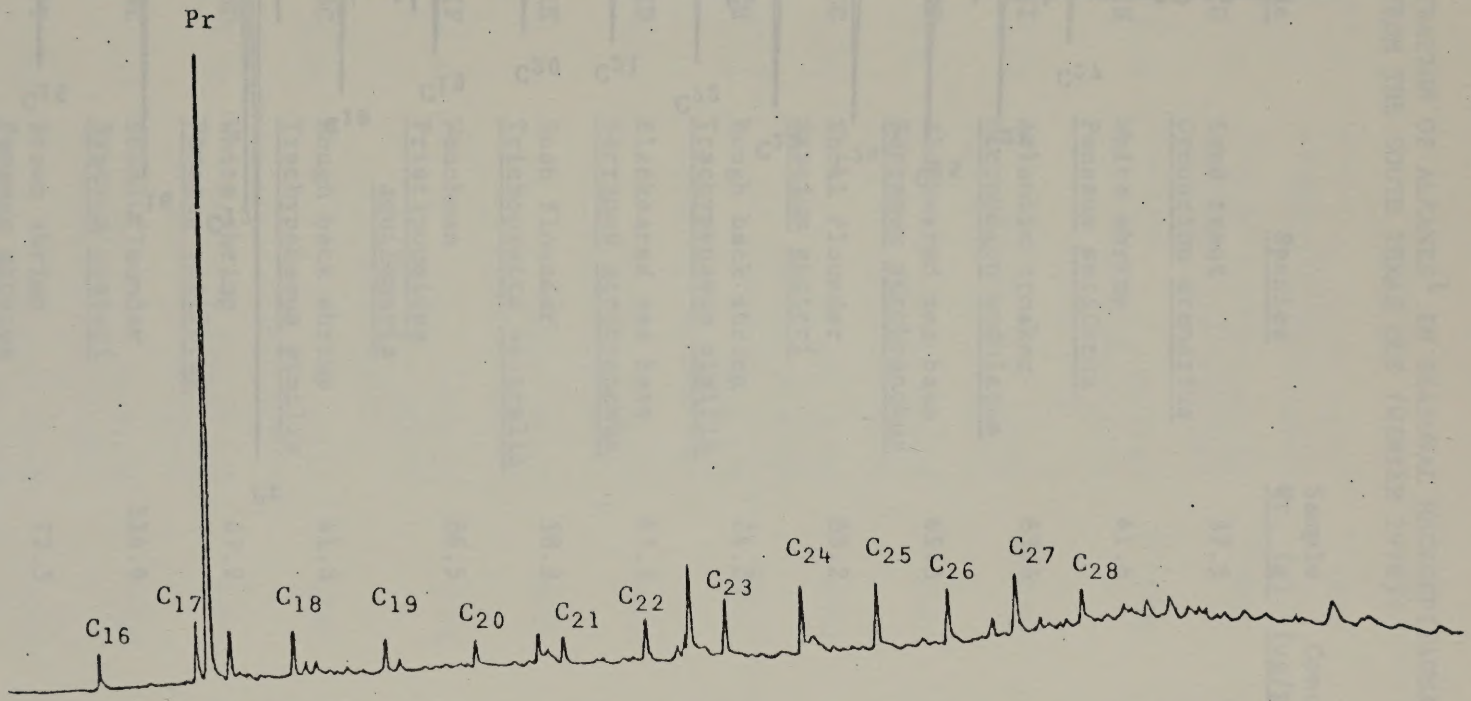

Figure 3. Gas Chromatogram of the Aliphatic Fraction of a Sash Flounder (*Trichopsetta ventralis*) Sample (BBIE).

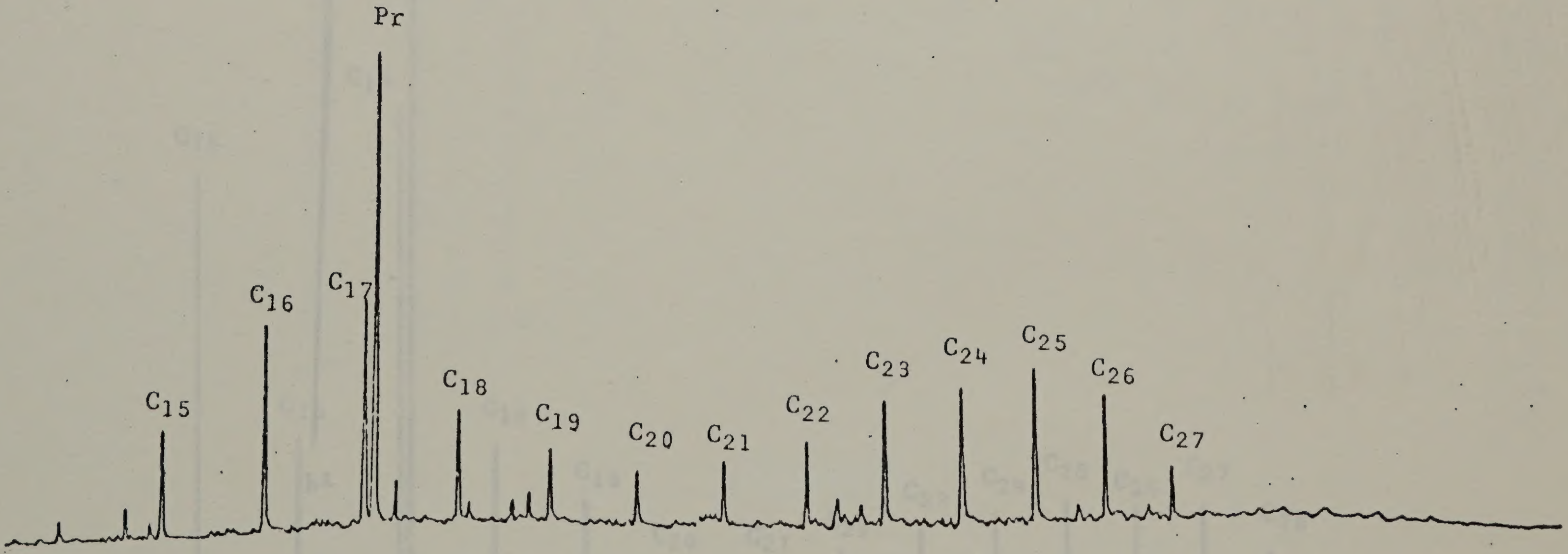

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TABLE 1

CONCENTRATION OF ALKANES[1] IN SEASONAL MACROEPIFAUNA FROM THE SOUTH TEXAS OCS (WINTER 1976)

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (μg/g dry wt.)
1/I	BBEG	Sand trout *Cynoscion arenarius*	87.5	6.08
1/I	BBEH	White shrimp *Penaeus setiferus*	41.6	0.24
1/I	BBEI	Atlantic croaker *Micropogon undulatus*	63.6	0.52
2/I	BBGF	Blackeared sea bass *Serranus atrobranchus*	65.3	0.35
2/I	BBGG	Shoal flounder *Syacium gunteri*	88.2	0.07
2/I	BBGH	Rough back shrimp *Trachypenaeus similis*	24.2	0.01
3/I	BBID	Blackeared sea bass *Serranus atrobranchus*	67.7	0.10
3/I	BBIE	Sash flounder *Trichopsetta ventralis*	58.3	0.13
3/I	BBIF	Wenchman *Pristipomoides aquilonaris*	86.5	0.17
1/II	BCNC	Rough back shrimp *Trachypenaeus similis*	41.8	0.18
1/II	BCND	White shrimp *Penaeus setiferus*	47.2	0.08
1/II	BCNE	Shoal flounder *Syacium gunteri*	114.9	0.94
2/II	BCPD	Brown shrimp *Penaeus aztecus*	72.5	-
2/II	BCPE	Squid *Loligo pealei*	83.1	3.33
2/II	BCPF	Broken back shrimp *Solenocera vioscai*	13.5	0.09

TABLE 1 CONT'D

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (μg/g dry wt.)
3/II	BCRE	Longspine porgy *Stenotomus caprinus*	76.4	0.15
3/II	BCRF	Blackeared sea bass *Serranus atrobranchus*	55.1	0.29
3/II	BCRG	Wenchman *Pristipomoides aquilonaris*	84.3	0.72
1/III	BBKL	Rough back shrimp *Trachypenaeus similis*	33.0	0.06
1/III	BBKM	Mantis shrimp *Squilla chydea*	9.1	0.20
1/III	BBKN	Shoal flounder *Syacium gunteri*	77.6	0.15
2/III	BBMP	Flounder *Cyclopsetta chittendeni*	99.2	-
2/III	BBMQ	Longspine porgy *Stenotomus caprinus*	49.9	0.26
2/III	BBMR	Brown shrimp *Penaeus aztecus*	70.1	-
3/III	BBOH	Wenchman *Pristipomoides aquilonaris*	104.8	1.00
3/III	BBOI	Squid *Loligo pealei*	92.1	0.47
3/III	BBOJ	Blackeared sea bass *Serranus atrobranchus*	67.3	0.68
1/IV	BBUO	Rough back shrimp *Trachypeneaus similis*	21.2	0.05
1/IV	BBUP	Shoal flounder *Syacium gunteri*	58.6	0.93
1/IV	BBUQ	Sand trout *Cynoscion arenarius*	32.8	6.02
2/IV	BBWV	Goatfish *Upeneus parvus*	98.5	2.14

TABLE 1 CONT'D

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (μg/g dry wt.)
2/IV	BBWW	Squid Loligo pealei	97.7	0.22
2/IV	BBWX	Longspine porgy Stenotomus caprinus	96.3	0.04
3/IV	BBZA	Wenchman Pristipomoides aquilonaris	94.4	0.64
3/IV	BBZB	Goatfish Upeneus parvus	85.3	1.17
3/IV	BBZC	Brown shrimp Penaeus aztecus	83.4	0.05

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[1] Total Alkanes includes total paraffins, pristane and phytane

TABLE 2

ORGANS AND INDIVIDUALS ANALYZED IN SEASONAL MACROEPIFAUNA (WINTER 1976)

Station/ Transect	Code	Species	Organ Used[a]	No. of Individuals
1/I	BBEG	Sand trout *Cynoscion arenarius*	M	5
1/I	BBEH	White shrimp *Penaeus setiferus*	M	5
1/I	BBEI	Atlantic croaker *Micropogon undulatus*	W-h	5
2/I	BBGF	Blackeared sea bass *Serranus atrobranchus*	W-h	10
2/I	BBGG	Shoal flounder *Syacium gunteri*	W-h	5
2/I	BBGH	Rough back shrimp *Trachypenaeus similis*	M	10
3/I	BBID	Blackeared sea bass *Serranus atrobranchus*	W-h	5
3/I	BBIE	Sash flounder *Trichopsetta ventralis*	W-h	5
3/I	BBIF	Wenchman *Pristipomoides aquilonaris*	M	5
1/II	BCNC	Rough back shrimp *Trachypenaeus similis*	M	22
1/II	BCND	White shrimp *Penaeus setiferus*	M	5
1/II	BCNE	Shoal flounder *Syacium gunteri*	W-h	5
2/II	BCPD	Brown shrimp *Penaeus aztecus*	M	5
2/II	BCPE	Squid *Loligo pealei*	W-p	10
2/II	BCPF	Broken back shrimp *Solenocera vioscai*	M	5

TABLE 2 CONT'D

Station/ Transect	Code	Species	Organ Used[a]	No. of Individuals
3/II	BCRE	Longspine porgy _Stenotomus caprinus_	M	4
3/II	BCRF	Blackeared sea bass _Serranus atrobranchus_	W-h	5
3/II	BCRG	Wenchman _Pristipomoides aquilonaris_	M	5
1/III	BBKL	Rough back shrimp _Trachypenaeus similis_	M	15
1/III	BBKM	Mantis shrimp _Squilla chydea_	M	10
1/III	BBKN	Shoal flounder _Syacium gunteri_	W-h	10
2/III	BBMP	Flounder _Cyclopsetta chittendeni_	M	4
2/III	BBMQ	Longspine porgy _Stenotomus caprinus_	M	4
2/III	BBMR	Brown shrimp _Penaeus aztecus_	M	5
3/III	BBOH	Wenchman _Pristipomoides aquilonaris_	M	3
3/III	BBOI	Squid _Loligo pealei_	W-p	3
3/III	BBOJ	Blackeared sea bass _Serranus atrobranchus_	W-h	5
1/IV	BBUO	Rough back shrimp _Trachypeneaus similis_	M	10
1/IV	BBUP	Shoal flounder _Syacium gunteri_	W-h	5
1/IV	BBUQ	Sand trout _Cynoscion arenarius_	W-h	5

TABLE 2 CONT'D

Station/ Transect	Code	Species	Organ Used[a]	No. of Individuals
2/IV	BBWV	Goatfish *Upeneus parvus*	W-h	5
2/IV	BBWW	Squid *Loligo pealei*	W-p	5
2/IV	BBWX	Longspine porgy *Stenotomus caprinus*	W-h	5
3/IV	BBZA	Wenchman *Pristipomoides aquilonaris*	M	5
3/IV	BBZB	Goatfish *Upeneus parvus*	W-h	5
3/IV	BBZC	Brown shrimp *Penaeus aztecus*	M	5

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[a] M = muscle; W-h = whole less head; W-p = whole less pen.

TABLE 3

PERCENT DISTRIBUTION OF n-PARAFFINS IN SEASONAL MACROEPIFAUNA FROM THE SOUTH TEXAS OCS (WINTER 1976)

STATION	1/I	1/I	1/I	2/I	2/I	2/I	3/I	3/I	3/I	1/II
SAMPLE CODE[a]	BBEG	BBEH	BBEI	BBGF	BBGG	BBGH	BBID	BBIE	BBIF	BCNC
CARBON NO.										
14	–	–	–	–	–	–	–	–	–	–
15	19.6	–	3.9	24.9	29.4	100	19.7	–	74.1	7.5
16	2.9	8.5	8.1	14.5	29.4	–	14.5	–	7.1	20.0
17	48.9	14.1	27.8	33.0	41.2	–	31.6	10.9	18.8	23.1
18	6.6	7.5	9.9	12.7	–	–	14.5	7.8	–	11.2
19	9.3	4.7	5.7	9.8	–	–	10.5	–	–	6.3
20	4.6	3.3	3.3	5.1	–	–	9.2	–	–	3.8
21	2.1	4.2	5.4	–	–	–	–	–	–	4.3
22	–	7.5	3.3	–	–	–	–	7.8	–	5.0
23	0.7	9.4	4.2	–	–	–	–	9.4	–	6.9
24	0.6	11.3	4.5	–	–	–	–	14.1	–	6.9
25	1.6	13.1	4.8	–	–	–	–	15.6	–	5.0
26	0.7	8.9	5.1	–	–	–	–	10.9	–	–
27	0.9	4.2	6.9	–	–	–	–	14.1	–	–
28	0.7	3.3	3.3	–	–	–	–	9.4	–	–
29	–	–	–	–	–	–	–	–	–	–
30	0.8	–	2.4	–	–	–	–	–	–	–
31	–	–	–	–	–	–	–	–	–	–
32	–	–	1.4	–	–	–	–	–	–	–
n-paraffins (ppm)	2.62	0.21	0.33	0.17	0.02	0.01	0.08	0.06	0.11	0.16
Pristane (ppm)	3.33	0.02	0.17	0.17	0.05	–	0.02	0.07	0.06	0.02
Phytane (ppm)	0.13	0.01	0.02	0.01	–	–	–	–	–	–
Pr/Py	25.6	2.0	8.5	17.0	–	–	–	–	–	–
Pr/C_{17}	2.6	0.7	1.9	3.0	5.0	–	0.7	7.0	3.0	0.5
Py/C_{18}	0.8	0.5	0.7	0.5	–	–	–	–	–	–
CPI_{14-20}	6.9	1.1	1.9	2.3	2.4	–	1.9	1.4	13.1	1.1
CPI_{20-32}	1.3	1.0	1.0	–	–	–	–	0.9	–	1.2
Total Alkanes	6.08	0.24	0.52	0.35	0.07	0.01	0.10	0.13	0.17	0.18

TABLE 3 CONT'D

STATION	1/II	1/II	2/II	2/II	2/II	3/II	3/II	3/II	1/III	1/III
SAMPLE CODE[a]	BCND	BCNE	BCPD	BCPE	BCPF	BCRE	BCRF	BCRG	BBKL	BBKM
CARBON NO.										
14	-	-	-	-	-	-	-	-	-	-
15	11.8	17.1	-	65.4	-	16.4	12.9	62.3	-	5.8
16	41.2	4.0	-	3.4	34.6	29.5	27.7	3.0	39.1	34.3
17	47.0	6.3	-	7.5	38.5	29.5	59.4	28.1	39.1	40.2
18	-	2.8	-	4.3	19.2	13.1	-	2.6	21.8	19.7
19	-	4.0	-	14.4	7.7	11.5	-	4.0	-	-
20	-	-	-	2.6	-	-	-	-	-	-
21	-	5.1	-	2.4	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-
23	-	3.4	-	-	-	-	-	-	-	-
24	-	4.0	-	-	-	-	-	-	-	-
25	-	6.3	-	-	-	-	-	-	-	-
26	-	4.6	-	-	-	-	-	-	-	-
27	-	14.2	-	-	-	-	-	-	-	-
28	-	10.7	-	-	-	-	-	-	-	-
29	-	17.5	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-	-
n-paraffins (ppm)	0.05	0.18	-	0.49	0.08	0.06	0.17	0.46	0.05	0.14
Pristane (ppm)	0.03	0.75	-	2.83	0.01	0.09	0.12	0.26	0.01	0.06
Phytane (ppm)	-	0.01	-	0.01	-	-	-	-	-	-
Pr/Py	-	75.0	-	283.0	-	-	-	-	-	-
Pr/C_{17}	1.5	75.0	-	70.6	0.3	4.5	1.2	2.0	0.5	1.0
Py/C_{18}	-	1.0	-	0.5	-	-	-	-	-	-
CPI_{14-20}	1.4	4.0	-	9.9	0.9	1.4	2.6	16.9	0.6	0.9
CPI_{20-32}	-	2.4	-	-	-	-	-	-	-	-
Total Alkanes	0.08	0.94	-	3.33	0.09	0.15	0.29	0.72	0.06	0.20

TABLE 3 CONT'D

STATION	1/III	2/III	2/III	2/III	3/III	3/III	3/III	1/IV	1/IV	1/IV
SAMPLE CODE[a]	BBKN	BBMP	BBMQ	BBMR	BBOH	BBOI	BBOJ	BBUO	BBUP	BBUQ
CARBON NO.										
14	–	–	–	–	–	–	–	–	–	–
15	27.3	–	4.4	–	59.3	48.2	74.8	–	13.3	21.2
16	31.8	–	9.3	–	3.3	2.6	6.0	41.5	4.2	2.3
17	40.9	–	13.2	–	23.1	9.5	10.7	58.5	10.1	38.7
18	–	–	7.8	–	2.1	–	2.2	–	3.5	2.0
19	–	–	5.9	–	6.1	2.6	6.3	–	5.2	5.3
20	–	–	3.4	–	–	–	–	–	–	0.5
21	–	–	4.4	–	0.9	2.2	–	–	4.9	1.2
22	–	–	5.9	–	–	2.2	–	–	2.1	–
23	–	–	8.3	–	0.9	4.3	–	–	5.3	0.4
24	–	–	10.4	–	0.9	6.9	–	–	4.9	0.4
25	–	–	12.8	–	1.0	8.6	–	–	7.0	26.2
26	–	–	9.8	–	0.9	5.2	–	–	4.9	0.5
27	–	–	4.4	–	1.5	4.7	–	–	7.7	0.5
28	–	–	–	–	–	3.0	–	–	5.9	0.3
29	–	–	–	–	–	–	–	–	16.8	0.5
30	–	–	–	–	–	–	–	–	4.2	–
31	–	–	–	–	–	–	–	–	–	–
32	–	–	–	–	–	–	–	–	–	–
n-paraffins (ppm)	0.02	–	0.20	–	0.58	0.23	0.32	0.04	0.29	3.09
Pristane (ppm)	0.12	–	0.06	–	0.42	0.24	0.36	0.01	0.63	2.91
Phytane (ppm)	0.01	–	–	–	–	–	–	–	0.01	0.02
Pr/Py	12.0	–	–	–	–	–	–	–	63.0	145.5
Pr/C_{17}	14.7	–	2.0	–	3.2	12.0	12.0	0.5	21.0	2.4
Py/C_{18}	–	–	–	–	–	–	–	–	1.0	0.3
CPI_{14-20}	2.1	–	1.3	–	16.4	23.2	11.2	1.4	3.7	14.4
CPI_{20-32}	–	–	1.1	–	2.4	1.1	–	–	1.9	20.5
Total Alkanes	0.15	–	0.26	–	1.00	0.47	0.68	0.05	0.93	6.02

TABLE 3 CONT'D

STATION	2/IV	2/IV	2/IV	3/IV	3/IV	3/IV
SAMPLE CODE[a]	BBWV	BBWW	BBWX	BBZA	BBZB	BBZC
CARBON NO.						
14	1.0	–	–	–	–	–
15	37.9	53.3	–	41.6	79.3	–
16	2.1	–	–	5.0	3.4	15.6
17	8.1	46.7	100	20.6	13.1	17.8
18	4.5	–	–	3.4	2.1	–
19	8.3	–	–	4.0	2.1	–
20	3.6	–	–	2.4	–	–
21	3.7	–	–	2.6	–	–
22	3.1	–	–	2.6	–	–
23	6.5	–	–	4.0	–	11.1
24	3.1	–	–	3.7	–	13.3
25	3.7	–	–	4.3	–	15.6
26	2.1	–	–	3.2	–	13.3
27	3.0	–	–	2.6	–	13.3
28	2.3	–	–	–	–	–
29	5.1	–	–	–	–	–
30	1.9	–	–	–	–	–
31	–	–	–	–	–	–
n-paraffins (ppm)	1.09	0.08	0.01	0.38	0.71	0.05
Pristane (ppm)	0.90	0.14	0.03	0.26	0.46	–
Phytane (ppm)	0.15	–	–	–	–	–
Pr/Py	6.0	–	–	–	–	–
Pr/C_{17}	10.0	3.5	3.0	3.3	5.1	–
Py/C_{18}	3.0	–	–	–	–	–
CPI_{14-20}	6.2	–	–	7.0	17.2	1.1
CPI_{20-32}	1.6	–	–	1.3	–	1.5
Total Alkanes	2.14	0.22	0.04	0.64	1.17	0.05

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[a] The code and order of samples correspond to Tables 3 and 4.

TABLE 4

Concentration of Alkanes in Seasonal Macroepifauna from the South Texas OCS (Spring 1977)

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (µg/g dry wt.)
1/I	BGWK	Brown shrimp Penaeus aztecus	27.8	0.48
1/I	BGWL	Sand trout Cynoscion arenarius	75.8	0.26
1/I	BGWM	Squid Loligo pealei	101.1	0.18
2/I	BGYL	Brown shrimp Penaeus aztecus	11.7	0.15
2/I	BGYM	Black-eared sea bass Serranus atrobranchus	39.1	0.09
2/I	BGYN	Broken-back shrimp Solenocera vioscai	14.1	0.30
3/I	BHAP	Black-eared sea bass Serranus atrobranchus	65.1	0.08
3/I	BHAQ	Longspine porgy Stenotomus caprinus	83.7	0.21
3/I	BHAR	Wenchman Pristipomoides aquilonaris	82.3	0.12
1/II	BHIE	Squid Loligo pealei	74.2	0.23
1/II	BHIF	Butterfish Peprilus burti	61.4	1.70
1/II	BHIG	Brown shrimp Penaeus aztecus	47.4	0.14
2/II	BHKV	Black-eared sea bass Serranus atrobranchus	73.1	-
2/II	BHKW	Brown shrimp Penaeus aztecus	15.5	0.25
2/II	BHKX	Butterfish Peprilus burti	68.8	1.42

TABLE 4 CONT'D

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (μg/g dry wt.)
3/II	BHNM	Squid *Loligo pealei*	90.4	0.12
3/II	BHNN	Wenchman *Pristipomoides aquilonaris*	99.8	0.58
3/II	BHNO	Black-eared sea bass *Serranus atrobranchus*	100.00	-
1/III	BHWG	Mantis shrimp *Squilla empusa*	19.6	0.16
1/III	BHWH	Brown shrimp *Penaeus aztecus*	37.2	0.08
1/III	BHWI	Atlantic croaker *Micropogon undulatus*	91.9	0.24
2/III	BHYG	Butterfish *Peprilus burti*	98.3	4.27
2/III	BHYH	Rough scad *Trachurus lathami*	45.9	6.35
2/III	BHYI	Squid *Loligo pealei*	114.1	0.01
3/III	BIAI	Black-eared sea bass *Serranus atrobranchus*	109.7	0.02
3/III	BIAJ	Wenchman *Pristipomoides aquilonaris*	118.3	0.48
3/III	BIAK	Longspine porgy *Stenotomus caprinus*	63.0	0.07
1/IV	BIHG	Rough scad *Trachurus lathami*	129.7	2.00
1/IV	BIHH	Butterfish *Peprilus burti*	82.5	0.72
1/IV	BIHI	Squid *Loligo pealei*	65.2	0.77

TABLE 4 CONT'D

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (µg/g dry wt.)
1/IV	BLBP	Butterfish Peprilus burti	4153.4	1.82
2/IV	BIJG	Red snapper Lutjanus campechanus	49.9	0.37
2/IV	BIJH	Rough scad Trachurus lathami	105.1	2.77
2/IV	BIJI	Squid Loligo pealei	148.7	0.04
3/IV	BILJ	Wenchman Pristipomoides aquilonaris	121.9	0.23
3/IV	BILK	Black-eared sea bass Serranus atrobranchus	94.2	-
3/IV	BILL	Squid Loligo pealei	157.5	-

TABLE 5

Organs and Individuals Analyzed in Seasonal Macroepifauna (Spring 1977)

Station/ Transect	Code	Species	Organ Used	# of Individual Fish
1/I	BGWK	Brown shrimp *Penaeus aztecus*	M	11
1/I	BGWL	Sand trout *Cynoscion arenarius*	W-h	5
1/I	BGWM	Squid *Loligo pealei*	W-p	7
2/I	BGYL	Brown shrimp *Penaeus aztecus*	M	6
2/I	BGYM	Black-eared sea bass *Serranus atrobranchus*	W-h	8
2/I	BGYN	Broken-back shrimp *Solenocera vioscai*	M	6
3/I	BHAP	Black-eared sea bass *Serranus atrobranchus*	W-h	5
3/I	BHAQ	Longspine porgy *Stenotomus caprinus*	M	5
3/I	BHAR	Wenchman *Pristipomoides aquilonaris*	W-h	5
1/II	BHIE	Squid *Loligo pealei*	W-p	8
1/II	BHIF	Butterfish *Peprilus burti*	W-h	6
1/II	BHIG	Brown shrimp *Penaeus aztecus*	M	9
2/II	BHKV	Black-eared sea bass *Serranus atrobranchus*	W	5
2/II	BHKW	Brown shrimp *Penaeus aztecus*	M	7
2/II	BHKX	Butterfish *Peprilus burti*	W	6

TABLE 5′ CONT'D

Station/ Transect	Code	Species	Organ Used	# of Individual Fish
3/II	BHNM	Squid *Loligo pealei*	W-p	5
3/II	BHNN	Wenchman *Pristipomoides aquilonaris*	M	5
3/II	BHNO	Black-eared sea bass *Serranus atrobranchus*	W	6
1/III	BHWG	Mantis shrimp *Squilla empusa*	M	5
1/III	BHWH	Brown shrimp *Penaeus aztecus*	M	10
1/III	BHWI	Atlantic croaker *Micropogon undulatus*	W	5
2/III	BHYG	Butterfish *Peprilus burti*	W-h	5
2/III	BHYH	Rough scad *Trachurus lathami*	W	5
2/III	BHYI	Squid *Loligo pealei*	W-p	5
3/III	BIAI	Black-eared sea bass *Serranus atrobranchus*	W	5
3/III	BIAJ	Wenchman *Pristipomoides aquilonaris*	M	5
3/III	BIAK	Longspine porgy *Stenotomus caprinus*	M	5
1/IV	BIHG	Rough scad *Trachurus lathami*	W	10
1/IV	BIHH	Butterfish *Peprilus burti*	W	11
1/IV	BIHI	Squid *Loligo pealei*	W-p	6

TABLE 5 CONT'D

Station/ Transect	Code	Species	Organ Used	# of Individual Fish
1/IV	BLBP	Butterfish *Peprilus burti*	M	953
2/IV	BIJG	Red snapper *Lutjanus campechanus*	M	3
2/IV	BIJH	Rough scad *Trachurus lathami*	W-h	10
2/IV	BIJI	Squid *Loligo pealei*	W-p	5
3/IV	BILJ	Wenchman *Pristipomoides aquilonaris*	M	5
3/IV	BILK	Black-eared sea bass *Serranus atrobranchus*	W	5
3/IV	BILL	Squid *Loligo pealei*	W-p	5

M = muscle; W-h = whole less head; W-p = whole less pen, W = whole fish.

TABLE 6

Percent Distribution of n-Paraffins in Seasonal Macroepifauna from the South Texas OCS (Spring 1977)

STATION	1/I	1/I	1/I	2/I	2/I	2/I
SAMPLE CODE	BGWK	BGWL	BGWM	BGYL	BGYM	BGYN
CARBON NO.						
14	–	–	–	–	–	–
15	–	–	–	–	–	–
16	2.3	–	–	–	–	–
17	8.4	88.9	56.8	8.9	9.6	6.0
18	6.8	–	–	9.6	–	7.7
19	3.6	11.1	–	6.2	6.8	4.0
20	2.7	–	–	4.1	–	3.0
21	5.7	–	–	4.1	8.2	4.3
22	4.5	–	–	6.2	8.2	5.8
23	5.7	–	–	8.9	13.8	8.0
24	6.1	–	13.5	10.3	12.3	9.0
25	8.2	–	16.2	10.3	13.8	10.7
26	7.3	–	13.5	9.6	12.3	8.0
27	7.5	–	–	8.2	8.2	7.7
28	6.8	–	–	8.2	6.8	8.0
29	7.5	–	–	5.4	–	9.0
30	6.6	–	–	–	–	5.8
31	6.3	–	–	–	–	3.0
32	4.0	–	–	–	–	–
Total paraffin	0.44	0.05	0.04	0.15	0.07	0.30
Pristane	0.03	0.21	0.14	–	0.02	–
Phytane	0.01	–	–	–	–	–
Pr/Py	3.0	–	–	–	–	–
Pr/C_{17}	0.8	5.3	7.0	–	2.0	–
Py/C_{18}	0.3	–	–	–	–	–
CPI_{14-20}	1.2	–	–	1.3	–	1.1
CPI_{20-32}	1.2	–	0.6	1.0	1.1	1.1
Total alkanes	0.48	0.26	0.18	0.15	0.09	0.30

TABLE 6 CONT'D

STATION	3/I	3/I	3/I	1/II	1/II	1/II
SAMPLE CODE	BHAP	BHAQ	BHAR	BHIE	BHIF	BHIG
CARBON NO.						
14	–	–	–	–	3.1	–
15	–	–	–	–	87.1	–
16	–	–	–	–	2.1	9.6
17	57.7	16.2	14.3	75.0	6.3	12.8
18	–	4.6	–	–	0.4	6.4
19	–	6.2	7.1	25.0	1.0	–
20	–	–	7.1	–	–	–
21	–	3.8	7.1	–	–	6.4
22	–	5.4	10.0	–	–	–
23	23.1	13.0	11.5	–	–	5.6
24	–	7.7	11.5	–	–	5.6
25	19.2	9.2	15.7	–	–	13.6
26	–	5.4	8.6	–	–	5.6
27	–	5.4	–	–	–	8.0
28	–	3.8	7.1	–	–	9.6
29	–	7.7	–	–	–	9.6
30	–	6.2	–	–	–	7.2
31	–	–	–	–	–	–
32	–	5.4	–	–	–	–
Total paraffin	0.03	0.13	0.07	0.02	1.31	0.13
Pristane	0.05	0.08	0.05	0.21	0.39	0.01
Phytane	–	–	–	–	–	–
Pr/Py	–	–	–	–	–	–
Pr/C_{17}	2.5	4.0	5.0	10.5	4.9	0.5
Py/C_{18}	–	–	–	–	–	–
CPI_{14-20}	–	4.9	–	–	27.3	0.8
CPI_{20-32}	–	1.3	0.9	–	–	1.5
Total Alkanes	0.08	0.21	0.12	0.23	1.70	0.14

TABLE 6 CONT'D

STATION	2/II	2/II	2/II	3/II	3/II	3/II
SAMPLE CODE	BHKV	BHKW	BHKX	BHNM	BHNN	BHND
CARBON NO.						
14	-	-	-	-	-	-
15	-	-	48.8	25.8	23.1	-
16	-	2.9	2.4	-	5.9	-
17	-	14.1	40.5	74.2	48.8	-
18	-	9.2	1.2	-	5.9	-
19	-	6.3	2.7	-	8.0	-
20	-	3.9	0.6	-	1.7	-
21	-	4.4	0.9	-	2.1	-
22	-	4.9	-	-	-	-
23	-	5.4	0.8	-	2.4	-
24	-	6.8	-	-	-	-
25	-	7.3	0.6	-	-	-
26	-	6.4	-	-	-	-
27	-	6.4	0.5	-	2.1	-
28	-	8.8	0.5	-	-	-
29	-	6.4	0.5	-	-	-
30	-	6.8	-	-	-	-
31	-	-	-	-	-	-
32	-	-	-	-	-	-
Total paraffin	-	0.21	1.00	0.03	0.29	-
Pristane	-	0.04	0.41	0.09	0.28	-
Phytane	-	-	0.01	-	0.01	-
Pr/Py	-	-	41.0	-	28.0	-
Pr/C_{17}	-	1.3	1.0	4.5	2.0	-
Py/C_{18}	-	-	1.0	-	0.5	-
CPI_{14-20}	-	1.5	23.7	-	6.4	-
CPI_{20-32}	-	0.8	4.8	-	-	-
Total alkanes	-	0.25	1.42	0.12	0.58	-

TABLE 6 CONT'D

STATION	1/III	1/III	1/III	2/III	2/III	2/III
SAMPLE CODE	BHWG	BHWH	BHWI	BHYG	BHYH	BHYI
CARBON NO.						
14	–	–	–	–	1.1	–
15	–	–	16.8	46.1	60.3	–
16	9.3	–	6.3	1.4	2.9	–
17	15.3	15.9	23.2	37.0	4.3	–
18	8.7	–	6.3	3.0	1.8	–
19	6.0	7.9	8.5	9.2	2.1	–
20	5.3	–	–	1.0	2.0	–
21	8.7	7.9	16.8	1.9	2.7	–
22	9.3	–	–	–	1.8	–
23	10.0	7.9	6.3	0.4	1.2	–
24	8.8	7.9	–	–	1.7	–
25	9.3	9.5	9.5	–	1.9	–
26	6.0	7.9	6.3	–	3.7	–
27	3.3	11.2	–	–	2.0	–
28	–	12.7	–	–	1.6	–
29	–	11.2	–	–	2.2	–
30	–	–	–	–	2.7	–
31	–	–	–	–	–	–
32	–	–	–	–	4.0	–
Total paraffin	0.15	0.06	0.10	1.62	1.88	–
Pristane	0.01	0.02	0.13	2.62	4.42	0.01
Phytane	–	–	0.01	0.03	0.05	–
Pr/Py	–	–	13.0	87.3	88.4	–
Pr/C_{17}	0.5	2.0	6.5	4.4	55.3	–
Py/C_{18}	–	–	1.0	0.6	1.7	–
CPI_{14-20}	1.1	–	3.9	19.0	10.7	–
CPI_{20-32}	1.2	1.7	5.2	–	0.7	–
Total alkanes	0.16	0.08	0.24	4.27	6.35	0.01

TABLE 6 CONT'D

STATION	3/III	3/III	3/III	1/IV	1/IV	1/IV
SAMPLE CODE	BIAI	BIAJ	BIAK	BIHG	BIHH	BIHI
CARBON NO.						
14	–	–	–	–	–	–
15	–	34.4	–	79.1	49.5	22.0
16	–	4.8	–	4.4	2.6	2.7
17	–	50.8	64.3	3.8	33.9	41.7
18	–	5.3	35.7	2.5	1.6	4.5
19	–	4.7	–	3.0	6.1	9.9
20	–	–	–	–	–	3.1
21	–	–	–	3.0	2.9	4.6
22	–	–	–	–	–	2.7
23	–	–	–	2.6	2.1	3.1
24	–	–	–	–	–	2.7
25	–	–	–	1.6	1.3	3.0
26	–	–	–	–	–	–
27	–	–	–	–	–	–
28	–	–	–	–	–	–
29	–	–	–	–	–	–
30	–	–	–	–	–	–
31	–	–	–	–	–	–
32	–	–	–	–	–	–
Total paraffin	–	0.19	0.01	0.36	0.38	0.22
Pristane	0.02	0.29	0.06	1.62	0.34	0.55
Phytane	–	–	–	0.02	–	–
Pr/Py	–	–	–	81.0	–	–
Pr/C_{17}	–	2.9	6.0	162.0	2.6	6.1
Py/C_{18}	–	–	–	2.0	–	–
CPI_{14-20}	–	8.9	1.8	12.4	21.3	8.7
CPI_{20-32}	–	–	–	–	–	1.6
Total alkanes	0.02	0.48	0.07	2.00	0.72	0.77

TABLE 6 CONT'D

STATION	1/IV	2/IV	2/IV	2/IV	3/IV	3/IV
SAMPLE CODE	BLBP	BIJG	BIJH	BIJI	BILJ	BILK
CARBON NO.						
14	1.5	–	0.9	–	–	–
15	53.9	22.4	87.2	–	25.2	–
16	2.8	6.8	1.8	–	8.2	–
17	34.1	32.0	2.0	100.0	47.7	–
18	1.4	6.8	0.9	–	–	–
19	4.0	6.1	2.3	–	5.4	–
20	–	–	0.8	–	–	–
21	1.0	3.4	1.2	–	–	–
22	–	–	0.7	–	–	–
23	1.3	4.1	2.2	–	–	–
24	–	3.4	–	–	4.5	–
25	–	4.1	–	–	4.5	–
26	–	3.4	–	–	4.5	–
27	–	–	–	–	–	–
28	–	4.1	–	–	–	–
29	–	3.4	–	–	–	–
30	–	–	–	–	–	–
31	–	–	–	–	–	–
32	–	–	–	–	–	–
Total paraffin	1.06	0.15	0.84	0.01	0.11	–
Pristane	0.75	0.22	1.92	0.03	0.12	–
Phytane	0.01	–	0.01	–	–	–
Pr/Py	75.0	–	192.0	–	–	–
Pr/C_{17}	2.1	4.4	96.0	3.0	2.4	–
Py/C_{18}	1.0	–	1.0	–	–	–
CPI_{14-20}	19.0	4.5	25.8	–	9.6	–
CPI_{20-32}	–	1.4	3.6	–	0.5	–
Total alkanes	1.82	0.37	2.77	0.04	0.23	–

TABLE 6 CONT'D

STATION	3/IV
SAMPLE CODE	BILL
CARBON NO.	
14	-
15	-
16	-
17	-
18	-
19	-
20	-
21	-
22	-
23	-
24	-
25	-
26	-
27	-
28	-
29	-
30	-
31	-
32	-
Total paraffin	-
Pristane	-
Phytane	-
Pr/Py	-
Pr/C_{17}	-
Py/C_{18}	-
CPI_{14-20}	-
CPI_{20-32}	-
Total alkanes	-

TABLE 7

Concentration of Alkanes[1] in Seasonal Macroepifauna from the South Texas OCS (Fall 1977)

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (µg/g dry wt.)
1/I	BPBP	Sand trout *Cynoscion arenarius*	72.8	0.97
1/I	BPBQ	White shrimp *Penaeus setiferus*	94.8	0.01
1/I	BPBR	Croaker *Micropogon undulatus*	99.4	0.23
2/I	BPDO	Brown shrimp *Penaeus aztecus*	48.2	0.17
2/I	BPDP	Croaker *Micropogon undulatus*	112.9	0.04
2/I	BPDQ	Black-eared sea bass *Serranus atrobranchus*	114.2	0.01
3/I	BPFN	Black-eared sea bass *Serranus atrobranchus*	100.9	0.06
3/I	BPFO	Wenchman *Pristipomoides aquilonaris*	114.9	0.75
3/I	BPFP	Longspine porgy *Stenotomus caprinus*	93.9	0.32
1/II	BPQS	Croaker *Micropogon undulatus*	83.7	0.20
1/II	BPQT	Brown shrimp *Penaeus aztecus*	43.6	0.07
1/II	BPQU	White shrimp *Penaeus setiferus*	58.6	0.07
2/II	BPST	Longspine porgy *Stenotomus caprinus*	69.3	0.82
2/II	BPSU	Brown shrimp *Penaeus aztecus*	63.7	0.07

TABLE 7 CONT'D

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (μg/g dry wt.)
2/II	BPSV	Rough scad *Trachurus lathami*	79.2	4.25
3/II	BPVM	Black-eared sea bass *Serranus atrobranchus*	67.2	0.12
3/II	BPVN	Longspine porgy *Stenotomus caprinus*	104.2	1.07
3/II	BPVO	Wenchman *Pristipomoides aquilonaris*	106.9	0.52
1/III	BQDR	Brown shrimp *Penaeus aztecus*	123.3	0.01
1/III	BQDS	Sand trout *Cynoscion arenarius*	98.1	17.35
1/III	BQDT	Croaker *Micropogon undulatus*	97.8	0.20
2/III	BQFV	Brown shrimp *Penaeus aztecus*	114.5	0.00
2/III	BQFW	Black-eared sea bass *Serranus atrobranchus*	82.7	0.07
2/III	BQFX	Red snapper *Lutjanus campechanus*	89.4	0.76
3/III	BQIB	Black-eared sea bass *Serranus atrobranchus*	98.6	0.01
3/III	BQIC	Longspine porgy *Stenotomus caprinus*	97.1	0.18
3/III	BQID	Wenchman *Pristipomoides aquilonaris*	98.1	0.49
1/IV	BQPA	Brown shrimp *Penaeus aztecus*	44.0	0.11
1/IV	BQPB	Croaker *Micropogon undulatus*	97.1	0.22

TABLE 7 CONT'D

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (µg/g dry wt.)
1/IV	BQPC	Red snapper *Lutjanus campechanus*	94.3	1.89
2/IV	BQRD	Brown shrimp *Penaeus aztecus*	73.9	0.02
2/IV	BQRE	Red snapper *Lutjanus campechanus*	98.3	0.31
2/IV	BQRF	Black-eared sea bass *Serranus atrobranchus*	51.2	0.40
3/IV	BQTG	Longspine porgy *Stenotomus caprinus*	96.9	0.02
3/IV	BQTH	Black-eared sea bass *Serranus atrobranchus*	100.7	0.07
3/IV	BQTI	Brown shrimp *Penaeus aztecus*	78.9	0.06

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[1] Total Alkanes includes total paraffins, pristane and phytane.

TABLE 8

Organs and Individuals Analyzed in Seasonal Macroepifauna from the South Texas OCS (Fall 1977)

Station/ Transect	Code	Species	Organ Used[a]	# of Individual Fish
1/I	BPBP	Sand trout *Cynoscion arenarius*	W-t	8
1/I	BPBQ	White shrimp *Penaeus setiferus*	M	5
1/I	BPBR	Croaker *Micropogon undulatus*	W-h	5
2/I	BPDO	Brown shrimp *Penaeus aztecus*	M	5
2/I	BPDP	Croaker *Micropogon undulatus*	W-h	5
2/I	BPDQ	Black-eared sea bass *Serranus atrobranchus*	W-h	8
3/I	BPFN	Black-eared sea bass *Serranus atrobranchus*	W-h	13
3/I	BPFO	Wenchman *Pristipomoides aquilonaris*	W-h	7
3/I	BPFP	Longspine porgy *Stenotomus caprinus*	M	5
1/II	BPQS	Croaker *Micropogon undulatus*	M	5
1/II	BPQT	Brown shrimp *Penaeus aztecus*	M	5
1/II	BPQU	White shrimp *Penaeus setiferus*	M	5
2/II	BPST	Longspine porgy *Stenotomus caprinus*	W-h	5
2/II	BPSU	Brown shrimp *Penaeus aztecus*	M	5

TABLE 8 CONT'D

Station/ Transect	Code	Species	Organ Used[a]	# of Individual Fish
2/II	BPSV	Rough scad *Trachurus lathami*	W-h	7
3/II	BPVM	Black-eared sea bass *Serranus atrobranchus*	W-h	5
3/II	BPVN	Longspine porgy *Stenotomus caprinus*	W-h	5
3/II	BPVO	Wenchman *Pristipomoides aquilonaris*	M	5
1/III	BQDR	Brown shrimp *Penaeus aztecus*	M	15
1/III	BQDS	Sand trout *Cynoscion arenarius*	M	5
1/III	BQDT	Croaker *Micropogon undulatus*	W-h	5
2/III	BQFV	Brown shrimp *Penaeus aztecus*	M	9
2/III	BQFW	Black-eared sea bass *Serranus atrobranchus*	W-h	15
2/III	BQFX	Red snapper *Lutjanus campechanus*	W-h	6
3/III	BQIB	Black-eared sea bass *Serranus atrobranchus*	M	25
3/III	BQIC	Longspine porgy *Stenotomus caprinus*	M	6
3/III	BQID	Wenchman *Pristipomoides aquilonaris*	M	4
1/IV	BQPA	Brown shrimp *Penaeus aztecus*	M	5
1/IV	BQPB	Croaker *Micropogon undulatus*	W-h	5

TABLE 8 CONT'D

Station/ Transect	Code	Species	Organ Used[a]	# of Individual Fish
1/IV	BQPC	Red snapper Lutjanus campechanus	W-h	7
2/IV	BQRD	Brown shrimp Penaeus aztecus	M	6
2/IV	BQRE	Red snapper Lutjanus campechanus	W-h	6
2/IV	BQRF	Black-eared sea bass Serranus atrobranchus	W-t	6
3/IV	BQTG	Longspine porgy Stenotomus caprinus	W-h	5
3/IV	BQTH	Black-eared sea bass Serranus atrobranchus	M	29
3/IV	BQTI	Brown shrimp Penaeus aztecus	M	6

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[a] M = muscle; W-t = whole less tail; W-h = whole less head.

TABLE 9

Percent Distribution of *n*-Paraffins in Seasonal Macroepifauna from the South Texas OCS (Fall 1977)

STATION	1/I	1/I	1/I	2/I	2/I	2/I	3/I	3/I	3/I
SAMPLE CODE	BPBP	BPBQ	BPBR	BPDO	BPDP	BPDQ	BPFN	BPFO	BPFP
CARBON NO.									
14	4.4	46.2	6.8	19.4	–	–	18.4	2.7	12.8
15	46.2	53.8	16.4	24.8	54.5	100.0	44.9	52.6	29.7
16	4.2	–	5.7	11.4	–	–	10.2	3.8	5.4
17	37.8	–	32.2	6.7	45.5	–	26.5	35.9	28.4
18	1.9	–	3.4	4.0	–	–	–	2.5	–
19	2.8	–	4.5	3.4	–	–	–	2.5	4.7
20	–	–	–	–	–	–	–	–	–
21	1.2	–	–	3.4	–	–	–	–	–
22	–	–	–	4.0	–	–	–	–	–
23	–	–	–	5.4	–	–	–	–	–
24	–	–	–	6.0	–	–	–	–	–
25	–	–	–	8.1	–	–	–	–	3.4
26	–	–	2.8	3.4	–	–	–	–	5.4
27	–	–	10.7	–	–	–	–	–	3.4
28	–	–	5.1	–	–	–	–	–	–
29	1.5	–	12.4	–	–	–	–	–	6.8
30	–	–	–	–	–	–	–	–	–
31	–	–	–	–	–	–	–	–	–
32	–	–	–	–	–	–	–	–	–
Total paraffin	0.43	0.01	0.18	0.15	0.02	0.01	0.05	0.53	0.15
Pristane	0.54	–	0.05	0.02	0.02	–	0.01	0.22	0.16
Phytane	–	–	–	–	–	–	–	–	0.01
Pr/Py	–	–	–	–	–	–	–	–	16.0
Pr/C_{17}	3.4	–	0.8	2.0	2.0	–	1.0	1.2	4.0
Py/C_{18}	–	–	–	–	–	–	–	–	–
CPI_{14-20}	11.2	–	4.6	1.6	–	–	4.8	12.3	7.5
CPI_{20-32}	–	–	2.9	1.3	–	–	–	–	2.5
Total Alkanes	0.97	0.01	0.23	0.17	0.04	0.01	0.06	0.75	0.32

TABLE 9 CONT'D

STATION	1/II	1/II	1/II	2/II	2/II	2/II	3/II	3/II	3/II
SAMPLE CODE	BPQS	BPQT	BPQU	BPST	BPSU	BPSV	BPVM	BPVN	BPVO
CARBON NO.									
14	7.2	–	39.0	5.7	37.9	1.7	16.7	–	3.1
15	20.4	41.5	43.8	18.2	44.9	72.9	27.2	20.7	46.3
16	6.6	21.9	17.2	6.7	17.2	5.5	7.0	3.1	3.6
17	13.2	36.6	–	51.9	–	5.2	12.3	23.5	42.2
18	–	–	–	3.4	–	1.4	–	2.6	2.4
19	4.6	–	–	3.7	–	2.5	–	4.9	2.4
20	–	–	–	1.8	–	0.8	–	1.3	–
21	3.3	–	–	2.8	–	1.7	–	3.1	–
22	–	–	–	1.0	–	1.0	–	1.3	–
23	3.3	–	–	1.5	–	1.8	4.4	6.4	–
24	3.3	–	–	1.2	–	1.3	4.4	1.3	–
25	4.6	–	–	1.3	–	1.4	5.3	3.3	–
26	3.9	–	–	–	–	0.8	4.4	4.4	–
27	13.8	–	–	0.8	–	1.3	7.9	4.6	–
28	8.6	–	–	–	–	–	–	–	–
29	–	–	–	–	–	0.7	5.2	13.6	–
30	7.2	–	–	–	–	–	5.2	5.9	–
31	–	–	–	–	–	–	–	–	–
32	–	–	–	–	–	–	–	–	–
Total paraffin	0.15	0.04	0.06	0.60	0.06	0.71	0.11	0.39	0.42
Pristane	0.05	0.03	0.01	0.20	0.01	3.52	0.01	0.67	0.10
Phytane	–	–	–	0.02	–	0.02	–	0.01	–
Pr/Py	–	–	–	10.0	–	176.0	–	67.0	–
Pr/C_{17}	2.5	1.5	–	0.7	–	88.0	1.0	7.4	0.6
Py/C_{18}	–	–	–	1.0	–	2.0	–	1.0	–
CPI_{14-20}	4.3	3.6	1.7	5.4	1.7	9.9	3.7	7.8	12.6
CPI_{20-32}	1.1	–	–	2.3	–	2.0	1.6	2.3	–
Total Alkanes	0.20	0.07	0.07	0.82	0.07	4.25	0.12	1.07	0.52

TABLE 9 CONT'D

STATION	1/III	1/III	1/III	2/III	2/III	2/III	3/III	3/III	3/III
SAMPLE CODE	BQDR	BQDS	BQDT	BQFV	BQFW	BQFX	BQIB	BQIC	BQID
CARBON NO.									
14	–	0.6	23.0	–	21.9	5.6	–	–	2.2
15	–	35.7	46.9	–	37.5	65.6	100.0	31.6	43.0
16	–	1.8	8.8	–	9.4	5.6	–	7.9	4.0
17	–	55.7	16.9	–	15.6	20.9	–	35.5	45.2
18	–	0.9	–	–	–	1.3	–	–	2.5
19	–	4.8	4.4	–	–	1.0	–	6.6	3.1
20	–	0.2	–	–	–	–	–	–	–
21	–	0.3	–	–	–	–	–	–	–
22	–	–	–	–	–	–	–	–	–
23	–	–	–	–	–	–	–	–	–
24	–	–	–	–	7.8	–	–	–	–
25	–	–	–	–	7.8	–	–	–	–
26	–	–	–	–	–	–	–	–	–
27	–	–	–	–	–	–	–	6.6	–
28	–	–	–	–	–	–	–	–	–
29	–	–	–	–	–	–	–	11.8	–
30	–	–	–	–	–	–	–	–	–
31	–	–	–	–	–	–	–	–	–
32	–	–	–	–	–	–	–	–	–
Total paraffin	–	9.45	0.11	–	0.06	0.48	0.01	0.08	0.32
Pristane	0.01	7.79	0.08	–	0.01	0.27	–	0.10	0.17
Phytane	–	0.11	0.01	–	–	0.01	–	–	–
Pr/Py	–	70.8	8.0	–	–	27.0	–	–	–
Pr/C_{17}	–	1.5	4.0	–	1.0	2.7	–	3.3	1.1
Py/C_{18}	–	1.2	–	–	–	1.0	–	–	–
CPI_{14-20}	–	31.2	5.0	–	3.7	9.8	–	9.3	12.3
CPI_{20-32}	–	–	–	–	1.0	–	–	–	–
Total Alkanes	0.01	17.35	0.20	–	0.07	0.76	0.01	0.18	0.49

TABLE 9 CONT'D

STATION	1/IV	1/IV	1/IV	2/IV	2/IV	2/IV	3/IV	3/IV	3/IV
SAMPLE CODE	BQPA	BQPB	BQPC	BQRD	BQRE	BQRF	BQTG	BQTH	BQTI
CARBON NO.									
14	39.4	12.7	2.4	–	9.1	1.7	–	26.2	–
15	38.5	21.5	78.0	58.3	45.2	35.7	46.2	26.2	43.7
16	16.3	5.1	2.4	41.7	8.7	6.7	–	7.7	–
17	5.8	12.0	14.7	–	18.8	26.2	53.8	9.2	56.3
18	–	–	0.5	–	–	2.3	–	–	–
19	–	5.7	1.6	–	–	4.0	–	–	–
20	–	–	–	–	–	1.7	–	–	–
21	–	–	0.4	–	–	2.7	–	–	–
22	–	–	–	–	–	2.0	–	–	–
23	–	–	–	–	2.4	3.0	–	7.7	–
24	–	–	–	–	2.9	3.0	–	7.7	–
25	–	–	–	–	3.8	4.0	–	–	–
26	–	–	–	–	2.9	3.0	–	7.7	–
27	–	7.6	–	–	3.4	4.0	–	7.6	–
28	–	8.9	–	–	2.8	–	–	–	–
29	–	–	–	–	–	–	–	–	–
30	–	20.2	–	–	–	–	–	–	–
31	–	–	–	–	–	–	–	–	–
32	–	6.3	–	–	–	–	–	–	–
Total paraffin	0.10	0.16	1.25	0.01	0.21	0.30	0.01	0.07	0.03
Pristane	0.01	0.05	0.62	0.01	0.09	0.09	0.01	–	0.03
Phytane	–	0.01	0.02	–	0.01	0.01	–	–	–
Pr/Py	–	5.0	31.0	–	9.0	9.0	–	–	–
Pr/C_{17}	1.0	2.5	3.4	–	2.3	1.1	1.0	–	1.5
Py/C_{18}	–	–	2.0	–	–	1.0	–	–	–
CPI_{14-20}	1.8	4.9	25.2	1.4	5.5	6.2	–	2.8	–
CPI_{20-32}	–	0.2	–	–	1.1	1.6	–	1.0	–
Total Alkanes	0.11	0.22	1.89	0.02	0.31	0.40	0.02	0.07	0.06

TABLE 10

CONCENTRATION OF ALKANES[1] IN INTRASPECIFIC VARIABILITY STUDY FROM THE SOUTH TEXAS OCS (FALL 1977)

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (µg/g dry wt.)
2/II	BUDX-1	Longspine porgy *Stenotomus caprinus*	40.5	0.92
2/II	BUDX-2	Longspine porgy *Stenotomus caprinus*	41.7	1.02
2/II	BUDX-3	Longspine porgy *Stenotomus caprinus*	48.6	0.87
2/II	BUDX-4	Longspine porgy *Stenotomus caprinus*	56.1	1.00
2/II	BUDX-5	Longspine porgy *Stenotomus caprinus*	40.0	0.96
2/II	BUDX-6	Longspine porgy *Stenotomus caprinus*	37.5	1.41
2/II	BUDY-1	Black-eared sea bass *Serranus atrobranchus*	18.4	0.82
2/II	BUDY-2	Black-eared sea bass *Serranus atrobranchus*	18.5	0.70
2/II	BUDY-3	Black-eared sea bass *Serranus atrobranchus*	19.0	0.88
2/II	BUDY-4	Black-eared sea bass *Serranus atrobranchus*	17.8	0.53
2/II	BUDY-5	Black-eared sea bass *Serranus atrobranchus*	17.4	0.54
2/II	BUDY-6	Black eared sea bass *Serranus atrobranchus*	15.7	1.20
2/II	BUDZ-1	Wenchman *Pristipomoides aquilonaris*	51.9	0.65
2/II	BUDZ-2	Wenchman *Pristipomoides aquilonaris*	58.3	3.11

TABLE 10 CONT'D

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (ug/g dry wt.)
2/II	BUDZ-3	Wenchman *Pristipomoides aquilonaris*	78.2	0.94
2/II	BUDZ-4	Wenchman *Pristipomoides aquilonaris*	56.5	2.17
2/II	BUDZ-5	Wenchman *Pristipomoides aquilonaris*	47.7	3.84
2/II	BUDZ-6	Wenchman *Pristipomoides aquilonaris*	78.1	2.23
3/II	BUDU-1	Longspine porgy *Stenotomus caprinus*	34.4	1.27
3/II	BUDU-2	Longspine porgy *Stenotomus caprinus*	25.0	0.76
3/II	BUDU-3	Longspine porgy *Stenotomus caprinus*	40.2	0.86
3/II	BUDU-4	Longspine porgy *Stenotomus caprinus*	40.7	0.71
3/II	BUDU-5	Longspine porgy *Stenotomus caprinus*	63.3	1.66
3/II	BUDU-6	Longspine porgy *Stenotomus caprinus*	45.5	0.84
3/II	BUDV-1	Black-eared sea bass *Serranus atrobranchus*	16.8	0.76
3/II	BUDV-2	Black-eared sea bass *Serranus atrobranchus*	18.4	1.03
3/II	BUDV-3	Black-eared sea bass *Serranus atrobranchus*	18.9	0.81
3/II	BUDV-4	Black-eared sea bass *Serranus atrobranchus*	20.2	0.87

TABLE 10 CONT'D

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (µg/g dry wt.)
3/II	BUDV-5	Black-eared sea bass *Serranus atrobranchus*	18.4	0.63
3/II	BUDV-6	Black-eared sea bass *Serranus atrobranchus*	19.6	0.52
3/II	BUDW-1	Wenchman *Pristipomoides aquilonaris*	18.9	1.13
3/II	BUDW-2	Wenchman *Pristipomoides aquilonaris*	21.2	1.69
3/II	BUDW-3	Wenchman *Pristipomoides aquilonaris*	25.5	7.11
3/II	BUDW-4	Wenchman *Pristipomoides aquilonaris*	63.3	0.55
3/II	BUDW-5	Wenchman *Pristipomoides aquilonaris*	110.1	12.49
3/II	BUDW-6	Wenchman *Pristipomoides aquilonaris*	106.2	3.21

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[1] Total Alkanes includes total paraffins, pristane and phytane.

TABLE 11

ORGANS AND INDIVIDUALS ANALYZED IN INTRASPECIFIC VARIABILITY STUDY (FALL 1977)

Station/ Transect	Code	Species	Organ Used[a]	No. of Individuals
2/II	BUDX-1	Longspine porgy *Stenotomus caprinus*	W	1
2/II	BUDX-2	Longspine porgy *Stenotomus caprinus*	W	1
2/II	BUDX-3	Longspine porgy *Stenotomus caprinus*	W	1
2/II	BUDX-4	Longspine porgy *Stenotomus caprinus*	W	1
2/II	BUDX-5	Longspine porgy *Stenotomus caprinus*	W	1
2/II	BUDX-6	Longspine porgy *Stenotomus caprinus*	W	1
2/II	BUDY-1	Black-eared sea bass *Serranus atrobranchus*	W	1
2/II	BUDY-2	Black-eared sea bass *Serranus atrobranchus*	W	1
2/II	BUDY-3	Black-eared sea bass *Serranus atrobranchus*	W	1
2/II	BUDY-4	Black-eared sea bass *Serranus atrobranchus*	W	1
2/II	BUDY-5	Black-eared sea bass *Serranus atrobranchus*	W	1
2/II	BUDY-6	Black-eared sea bass *Serranus atrobranchus*	W	1
2/II	BUDZ-1	Wenchman *Pristipomoides aquilonaris*	W	1
2/II	BUDZ-2	Wenchman *Pristipomoides aquilonaris*	W	1

TABLE 11 CONT'D

Station/ Transect	Code	Species	Organ Used[a]	No. of Individuals
2/II	BUDZ-3	Wenchman *Pristipomoides aquilonaris*	W	1
2/II	BUDZ-4	Wenchman *Pristipomoides aquilonaris*	W	1
2/II	BUDZ-5	Wenchman *Pristipomoides aquilonaris*	W	1
2/II	BUDZ-6	Wenchman *Pristipomoides aquilonaris*	W	1
3/II	BUDU-1	Longspine porgy *Stenotomus caprinus*	W	1
3/II	BUDU-2	Longspine porgy *Stenotomus caprinus*	W	1
3/II	BUDU-3	Longspine porgy *Stenotomus caprinus*	W	1
3/II	BUDU-4	Longspine porgy *Stenotomus caprinus*	W	1
3/II	BUDU-5	Longspine porgy *Stenotomus caprinus*	W	1
3/II	BUDU-6	Longspine porgy *Stenotomus caprinus*	W	1
3/II	BUDV-1	Black-eared sea bass *Serranus atrobranchus*	W	1
3/II	BUDV-2	Black-eared sea bass *Serranus atrobranchus*	W	1
3/II	BUDV-3	Black-eared sea bass *Serranus atrobranchus*	W	1
3/II	BUDV-4	Black-eared sea bass *Serranus atrobranchus*	W	1

TABLE 11 CONT'D

Station/ Transect	Code	Species	Organ Used[a]	No. of Individuals
3/II	BUDV-5	Black-eared sea bass *Serranus atrobranchus*	W	1
3/II	BUDV-6	Black-eared sea bass *Serranus atrobranchus*	W	1
3/II	BUDW-1	Wenchman *Pristopomoides aquilonaris*	W	1
3/II	BUDW-2	Wenchman *Pristipomoides aquilonaris*	W	1
3/II	BUDW-3	Wenchman *Pristipomoides aquilonaris*	W	1
3/II	BUDW-4	Wenchman *Pristipomoides aquilonaris*	W	1
3/II	BUDW-5	Wenchman *Pristipomoides aquilonaris*	W	1
3/II	BUDW-6	Wenchman *Pristipomoides aquilonaris*	W	1

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[a] W=whole fish

TABLE 12

PERCENT DISTRIBUTION OF n-PARAFFINS IN INTRASPECIFIC VARIABLITY STUDY FROM THE SOUTH TEXAS OCS
(FALL 1977)

STATION	2/II	2/II	2/II	2/II	2/II	2/II
SAMPLE CODE	BUDX-1	BUDX-2	BUDX-3	BUDX-4	BUDX-5	BUDX-6
CARBON NO.						
14	-	1.7	-	2.4	-	2.6
15	15.5	16.7	20.8	17.2	15.3	9.6
16	5.9	8.7	7.7	6.9	9.0	10.9
17	21.5	35.0	42.5	38.1	29.9	35.4
18	3.5	7.0	6.2	5.2	5.8	8.7
19	5.3	4.4	6.2	4.6	6.7	6.1
20	1.9	2.6	2.1	1.7	1.8	3.4
21	2.7	4.1	3.7	3.4	2.9	3.8
22	3.7	2.2	2.5	1.2	1.8	2.2
23	9.5	4.1	3.9	4.8	7.4	3.9
24	7.8	3.1	1.5	1.2	2.0	2.4
25	11.1	6.1	2.9	3.1	4.3	2.7
26	6.1	1.9	-	0.9	1.1	2.1
27	3.4	1.5	-	2.6	3.6	2.9
28	2.1	0.9	-	3.0	2.3	1.2
29	-	-	-	2.2	3.4	1.7
30	-	-	-	1.5	2.7	0.4
31	-	-	-	-	-	-
32	-	-	-	-	-	-
Total n-paraffins (ppm)	0.62	0.59	0.52	0.67	0.45	1.11
Pristane (ppm)	0.29	0.40	0.33	0.31	0.49	0.25
Phytane (ppm)	0.01	0.03	0.02	0.02	0.02	0.05
Pr/Py	29.0	13.3	16.5	15.5	24.5	5.0
Pr/C_{17}	2.2	1.9	1.5	1.2	3.5	0.6
Py/C_{18}	0.5	0.8	0.7	0.5	0.7	0.5
CPI_{14-20}	4.1	3.2	4.7	4.2	3.3	2.3
CPI_{20-32}	1.3	1.7	2.2	1.9	2.0	1.6
Total Alkanes (ppm)	0.92	1.02	0.87	1.00	0.96	1.41

TABLE 12 CONT'D

STATION	2/II	2/II	2/II	2/II	2/II	2/II
SAMPLE CODE	BUDY-1	BUDY-2	BUDY-3	BUDY-4	BUDY-5	BUDY-6
CARBON NO.						
14	–	–	0.7	–	–	–
15	3.5	5.5	3.6	–	–	–
16	15.6	13.9	9.3	16.6	9.2	3.6
17	19.6	23.6	13.0	26.0	22.6	6.6
18	7.9	8.7	6.0	8.9	9.0	3.5
19	3.7	3.5	3.5	3.5	4.9	2.4
20	2.3	2.2	2.2	2.1	2.6	2.2
21	3.7	2.3	2.4	3.5	4.5	3.8
22	3.7	4.1	4.4	3.5	3.9	5.9
23	6.2	5.8	6.7	5.6	8.2	8.9
24	7.7	8.3	9.7	7.2	8.2	13.4
25	7.9	8.7	10.8	7.2	8.8	14.0
26	5.7	6.1	9.3	6.0	6.5	13.3
27	4.4	4.7	8.7	5.6	5.8	10.4
28	8.1	2.6	5.1	3.3	4.3	–
29	–	–	2.6	1.0	1.5	5.7
30	–	–	–	–	–	4.2
31	–	–	2.0	–	–	–
32	–	–	–	–	–	2.1
Total *n*-paraffins (ppm)	0.79	0.65	0.84	0.49	0.47	1.17
Pristane (ppm)	0.02	0.04	0.03	0.03	0.06	0.02
Phytane (ppm)	0.01	0.01	0.01	0.01	0.01	0.01
Pr/Py	2.0	4.0	3.0	3.0	6.0	2.0
Pr/C_{17}	0.1	0.3	0.3	0.2	0.6	0.3
Py/C_{18}	0.2	0.2	0.2	0.3	0.3	0.3
CPI_{14-20}	1.1	1.4	1.2	1.1	1.4	1.1
CPI_{20-32}	0.8	1.0	1.1	1.1	1.2	1.1
Total Alkanes (ppm)	0.82	0.70	0.88	0.53	0.54	1.20

TABLE 12 CONT'D

STATION	2/II	2/II	2/II	2/II	2/II	2/II
SAMPLE CODE	BUDZ-1	BUDZ-2	BUDZ-3	BUDZ-4	BUDZ-5	BUDZ-6
CARBON NO.						
14	–	–	1.2	–	1.9	0.8
15	31.2	30.4	42.4	46.2	84.2	84.1
16	6.0	2.5	4.5	2.4	4.8	4.8
17	44.3	61.8	43.3	47.9	2.5	3.2
18	3.5	2.1	2.5	1.5	2.0	1.6
19	2.6	1.9	2.1	2.0	2.2	2.3
20	–	0.2	–	–	0.4	–
21	3.8	0.3	1.3	–	–	0.4
22	0.9	–	–	–	–	–
23	2.0	0.2	1.1	–	0.3	0.6
24	2.2	0.3	0.7	–	0.3	0.6
25	2.2	0.3	0.9	–	0.4	0.6
26	1.3	–	–	–	0.4	0.6
27	–	–	–	–	0.4	0.4
28	–	–	–	–	0.2	–
29	–	–	–	–	–	–
30	–	–	–	–	–	–
31	–	–	–	–	–	–
32	–	–	–	–	–	–
Total n-paraffins (ppm)	0.55	2.82	0.76	1.95	2.25	1.20
Pristane (ppm)	0.10	0.28	0.18	0.22	1.56	1.01
Phytane (ppm)	–	0.01	–	–	0.01	0.02
Pr/Py	–	28.0	–	–	156.0	50.5
Pr/C_{17}	0.4	0.2	0.6	0.2	26.0	25.3
Py/C_{18}	–	0.2	–	–	0.2	1.0
CPI_{14-20}	8.2	20.0	11.6	24.6	11.3	13.2
CPI_{20-32}	1.8	2.1	4.7	–	1.0	1.7
Total Alkanes (ppm)	0.65	3.11	0.94	2.17	3.82	2.23

TABLE 12 CONT'D

STATION	3/II	3/II	3/II	3/II	3/II	3/II
SAMPLE CODE	BUDU-1	BUDU-2	BUDU-3	BUDU-4	BUDU-5	BUDU-6
CARBON NO.						
14	2.0	4.0	2.3	4.0	0.7	1.2
15	11.6	14.1	12.9	20.0	11.8	16.1
16	5.9	11.6	11.9	9.8	10.5	6.6
17	55.1	31.9	31.5	37.6	33.4	32.1
18	4.0	6.1	8.6	5.4	7.1	6.2
19	4.6	4.3	7.3	5.4	7.8	4.4
20	1.6	2.0	4.1	1.4	2.1	1.5
21	1.9	3.2	3.9	2.0	4.7	3.0
22	1.4	2.3	2.0	1.2	1.4	1.9
23	2.4	4.2	4.4	1.8	5.3	5.1
24	2.1	3.5	2.4	1.8	2.3	3.0
25	3.0	4.0	3.6	2.8	3.7	4.7
26	1.9	2.8	1.8	1.8	2.6	4.2
27	1.9	3.0	2.3	2.0	3.6	5.5
28	0.6	1.7	1.0	–	3.0	4.5
29	–	1.3	–	2.0	–	–
30	–	–	–	1.0	–	–
31	–	–	–	–	–	–
32	–	–	–	–	–	–
Total *n*-paraffins (ppm)	0.85	0.60	0.61	0.50	0.70	0.53
Pristane (ppm)	0.40	0.15	0.22	0.20	0.92	0.29
Phytane (ppm)	0.02	0.01	0.03	0.01	0.04	0.02
Pr/Py	20.0	15.0	7.3	20.0	23.0	14.5
Pr/C_{17}	0.9	0.8	1.2	1.1	4.0	1.7
Py/C_{18}	0.7	0.3	0.6	0.3	0.8	0.7
CPI_{14-20}	6.1	2.4	2.2	3.5	2.8	3.7
CPI_{20-32}	1.4	1.4	1.6	1.7	1.7	1.3
Total Alkanes (ppm)	1.27	0.76	0.86	0.71	1.66	0.84

TABLE 12 CONT'D

STATION	3/II	3/II	3/II	3/II	3/II	3/II
SAMPLE CODE	BUDV-1	BUDV-2	BUDV-3	BUDV-4	BUDV-5	BUDV-6
CARBON NO.						
14	-	2.2	-	1.1	1.0	4.0
15	8.3	9.4	2.1	4.1	8.6	11.5
16	17.2	10.9	7.0	10.5	15.8	14.5
17	18.4	16.7	11.8	14.6	26.1	18.8
18	8.1	5.5	5.5	6.2	9.9	6.5
19	4.3	3.6	3.2	3.8	5.3	4.0
20	2.3	1.7	1.8	2.2	2.9	2.1
21	2.3	2.0	2.0	2.4	3.1	2.3
22	3.2	3.3	3.3	4.2	4.0	4.0
23	4.6	5.5	6.0	7.1	5.0	5.5
24	6.9	7.1	10.6	9.4	5.5	6.7
25	7.6	8.9	12.3	9.9	5.5	7.5
26	6.9	6.5	10.6	7.8	3.6	5.0
27	4.3	6.0	9.1	6.5	2.7	4.0
28	2.4	3.3	4.6	2.7	1.0	1.7
29	2.0	1.4	2.8	1.2	-	-
30	1.2	1.0	2.8	1.5	-	-
31	-	4.4	2.2	4.8	-	1.9
32	-	0.6	2.3	-	-	-
Total n-paraffins (ppm)	0.70	0.95	0.76	0.83	0.58	0.48
Pristane (ppm)	0.05	0.07	0.04	0.03	0.04	0.03
Phytane (ppm)	0.01	0.01	0.01	0.01	0.01	0.01
Pr/Py	5.0	7.0	4.0	3.0	4.0	3.0
Pr/C$_{17}$	0.4	0.4	0.4	0.3	0.3	0.3
Py/C$_{18}$	0.2	0.2	0.3	0.2	0.2	0.3
CPI$_{14-20}$	1.2	1.6	1.3	1.2	1.5	1.4
CPI$_{20-32}$	1.0	1.3	1.0	1.2	1.1	1.2
Total Alkanes (ppm)	0.76	1.03	0.81	0.87	0.63	0.52

TABLE 12 CONT'D

STATION	3/II	3/II	3/II	3/II	3/II	3/II
SAMPLE CODE	BUDW-1	BUDW-2	BUDW-3	BUDW-4	BUDW-5	BUDW-6
CARBON NO.						
14	3.4	3.8	1.6	1.9	4.0	2.2
15	30.2	52.9	56.6	60.5	68.8	59.1
16	13.3	7.8	3.1	7.5	3.1	2.7
17	24.2	18.9	31.8	22.3	19.9	32.3
18	5.6	2.8	1.7	2.6	1.3	1.1
19	4.0	2.0	2.0	1.9	1.5	1.5
20	1.6	0.8	0.6	–	0.4	0.2
21	2.0	1.0	0.5	–	0.3	0.3
22	2.1	1.0	0.4	–	0.1	–
23	3.0	1.7	0.4	1.1	0.1	0.2
24	3.5	2.0	0.4	1.1	0.1	–
25	3.1	2.2	0.4	1.1	0.1	0.2
26	2.2	1.5	0.2	–	0.2	–
27	1.3	1.1	0.2	–	–	–
28	0.5	0.5	0.1	–	–	0.2
29	–	–	–	–	0.1	–
30	–	–	–	–	–	–
31	–	–	–	–	–	–
32	–	–	–	–	–	–
Total$_{n}$-paraffins (ppm)	0.91	1.47	6.44	0.47	8.38	2.70
Pristane (ppm)	0.21	0.21	0.64	0.08	4.06	0.50
Phytane (ppm)	0.01	0.01	0.03	–	0.05	0.01
Pr/Py	21.0	21.0	21.3	–	81.2	50.0
Pr/C_{17}	1.0	0.8	0.3	0.8	2.4	0.6
Py/C_{18}	0.2	0.3	0.3	–	0.5	0.3
CPI_{14-20}	2.7	5.8	15.4	7.7	14.8	19.4
CPI_{20-32}	1.0	1.1	1.1	2.0	1.1	2.6
Total Alkanes (ppm)	1.13	1.69	7.11	0.55	12.49	3.21

TABLE 13

CONCENTRATION OF ALKANES[1] IN LARGE (10 kg) SAMPLES FROM THE SOUTH TEXAS OCS (1977)

Station/ Transect	Code	Species	Sample Wt.(g)	Conc. in ppm (μg/g dry wt.)
1/III	BUEB	Croaker *Micropogon undulatus*	1002.2	0.27
1/IV	BUEA	Croaker *Micropogon undulatus*	1093.9	0.63
2/II	BUEC	Rough scad *Trachurus lathami*	1127.9	1.26
3/II	BVLL	Wenchman *Pristipomoides aquilonaris*	1052.2	0.68
1/IV	BLBP	Butterfish *Peprilus Burti*	4153.4	1.82

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[1] Total Alkanes includes total paraffins, pristane and phytane

TABLE 14

ORGANS AND INDIVIDUALS ANALYZED IN LARGE (10 kg) SAMPLES FROM THE SOUTH TEXAS OCS (1977)

Station/ Transect	Code	Species	Organ[a] Used	No. of Individuals
1/III	BUEB	Croaker *Micropogon undulatus*	M	58
1/IV	BUEA	Croaker *Micropogon undulatus*	M	45
2/II	BUEC	Rough scad *Trachurus lathami*	W-h-o	150
3/II	BVLL	Wenchman *Pristipomoides aquilonaris*	M	23
1/IV	BLBP	Butterfish *Peprilus Burti*	M	953

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[a] M = muscle only: W-h-o = whole, without head, without organs

TABLE 15

PERCENT DISTRIBUTION OF n-PARAFFINS IN LARGE (10 kg) SAMPLES FROM THE SOUTH TEXAS OCS (1977)

STATION	1/III	1/IV	2/II	3/II	1/IV
SAMPLE CODE	BUEB	BUEA	BUEC	BVLL	BLBP
CARBON NO.					
14	–	5.0	–	2.5	1.5
15	–	12.4	42.3	47.5	53.9
16	15.3	11.6	8.6	3.2	2.8
17	26.5	21.1	23.0	43.8	34.1
18	13.5	10.8	5.5	1.2	1.4
19	8.2	13.4	6.3	1.8	4.0
20	3.0	5.0	2.3	–	–
21	3.5	2.9	2.7	–	1.0
22	4.1	2.1	2.3	–	–
23	6.5	3.9	3.5	–	1.3
24	8.2	3.9	3.5	–	–
25	6.5	4.7	–	–	–
26	4.7	3.2	–	–	–
27	–	–	–	–	–
28	–	–	–	–	–
29	–	–	–	–	–
30	–	–	–	–	–
31	–	–	–	–	–
32	–	–	–	–	–
Total n-paraffins (ppm)	0.17	0.38	0.26	0.57	1.06
Pristane (ppm)	0.09	0.16	0.99	0.11	0.75
Phytane (ppm)	0.01	0.09	0.01	–	0.01
Pr/Py	9.0	1.8	99.0	–	75.0
Pr/C_{17}	1.8	2.0	16.5	0.4	2.1
Py/C_{18}	0.5	2.3	1.0	–	1.0
CPI_{14-20}	1.2	1.7	4.7	17.3	19.0
CPI_{20-32}	0.9	1.0	0.9	–	–
Total Alkanes (ppm)	0.27	0.63	1.26	0.68	1.82

TABLE 16

CONCENTRATIONS OF AROMATIC COMPOUNDS IN LARGE (10 Kg) SAMPLES FROM THE SOUTH TEXAS OCS (1977)

SAMPLE CODE	1/IV BUEA	1/III BUEB	2/II BUEC	3/II BULL	BLBP
AROMATIC HYDROCARBONS	PPM	PPM	PPM	PPM	PPM
1,2,3-TRIMETHYLBENZENE	-	-	-	-	-
1,2,3,5-TETRAMETHYLBENZENE	-	-	-	-	-
1,2,3,4-TETRAMETHYLBENZENE	-	-	-	-	-
NAPHTHALENE	-	0.01	0.01	-	-
2-METHYLNAPHTHALENE	-	0.03	0.02	-	-
1-METHYLNAPHTHALENE	-	0.03	-	-	-
BIPHENYL	-	0.02	0.01	TR	-
2,6-DIMETHYLNAPHTHALENE	-	TR	0.01	-	TR
1,3-DIMETHYLNAPHTHALENE	-	0.01	0.01	TR	-
2.3+1.5 DIMETHYLNAPHTHALENE	-	-	-	-	-
ACENAPHTHENE	-	0.01	-	-	-
4-PHENYLTOLUENE	-	0.01	0.01	-	TR
FLUORENE	-	-	-	-	TR
3.3'-DIMETHYLBIPHENYL	-	0.01	-	-	-
4.4'-DIMETHYLBIPHENYL	-	-	-	-	-
9,10-DIHYDROPHENANTHRENE	-	0.01	0.01	0.01	-
1-METHYLFLUORENE	-	0.01	-	0.01	-
PHENANTHRENE	-	-	0.01	TR	TR
ANTHRACENE	-	-	0.01	-	-
9-METHYLANTHRACENE	-	-	-	-	-
FLUORANTHENE	-	-	-	-	-
PYRENE	-	-	-	0.01	-
CHRYSENE	-	-	-	-	-
NONADECYLBENZENE	-	-	-	-	-
5 α-CHOLESTANE	-	-	-	-	-
SQUALENE	0.33	1.57	3.64	0.97	0.19
TOTAL	0.33	1.72	3.74	1.00	0.19

TR=TRACE=PPM < 0.005

TABLE 17

CONCENTRATION OF ALKANES[1] IN SEASONAL MACRONEKTON FROM SOUTH TEXAS OCS (WINTER 1976)

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (μg/g dry wt.)
Hospital Rock	BDRH→BDRL-M[a]	Red snapper *Lutjanus campechanus*	96.9	0.05
Hospital Rock	BDRH→BDRL-L		12.1	4.62
Hospital Rock	BDRH→BDRL-Gd		1.1	28.80
Hospital Rock	BDRM→BDRP-M	Vermilion snapper *Rhomboplites aurorubens*	100.5	0.23
Hospital Rock	BDRM→BDRP-L		12.3	14.36
Hospital Rock	BDRM→BDRP-Gd		4.4	9.16

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[1] Total Alkanes includes total paraffins, pristane and phytane

[a] M = muscle, L = liver, Gd = gonad

TABLE 18

ORGANS AND INDIVIDUALS ANALYZED IN SEASONAL MACRONEKTON (WINTER 1976)

Station/ Transect	Code	Species	Organ Used[a]	No. of Individuals
Hospital Rock	BDRH→BDRL-M[a]	Red snapper *Lutjanus campechanus*	M	5
	BDRH→BDRL-L		L	5
	BDRH→BDRL-Gd		Gd	5
Hospital Rock	BDRM→BDRP-M	Vermilion snapper *Rhomboplites aurorubens*	M	4
	BDRM→BDRP-L		L	4
	BDRM→BDRP-Gd		Gd	4

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[a] M = muscle; L = liver; Gd = gonad.

TABLE 19

PERCENT DISTRIBUTION OF n-PARAFFINS IN SEASONAL MACRONEKTON FROM THE SOUTH TEXAS OCS (WINTER 1976)

STATION	Hospital Rock	Hospital Rock	Hospital Rock	Hospital Rock
SAMPLE CODE[a]	BDRH→BDRL-M	BDRH→BDRL-L	BDRH→BDRL-Gd	BDRM→BDRP-M
CARBON NO.				
14	–	0.6	–	–
15	100	52.8	14.2	40.7
16	–	2.9	6.4	5.9
17	–	10.4	16.2	17.8
18	–	2.2	5.7	–
19	–	2.1	4.2	–
20	–	0.9	1.9	–
21	–	2.6	2.4	–
22	–	1.3	3.6	–
23	–	2.6	7.7	–
24	–	2.1	6.9	–
25	–	3.5	12.5	5.1
26	–	3.2	9.4	5.1
27	–	4.1	6.3	6.8
28	–	3.5	2.6	7.6
29	–	–	–	11.0
30	–	3.9	–	–
31	–	–	–	–
32	–	1.3	–	–
n-paraffins (ppm)	0.04	3.34	22.22	0.12
Pristane (ppm)	0.01	1.25	6.33	0.11
Phytane (ppm)	–	0.03	0.25	–
Pr/Py	–	41.7	25.3	–
Pr/C_{17}	–	3.6	1.8	5.5
Py/C_{18}	–	0.4	0.2	–
CPI_{14-20}	–	11.2	2.7	9.9
CPI_{20-32}	–	0.9	1.2	1.8
Total Alkanes	0.05	4.62	28.80	0.23

TABLE 19 CONT'D

STATION	Hospital Rock	Hospital Rock
SAMPLE CODE	BDRM→BDRP-L	BDRM→BDRP-Gd
CARBON NO.		
14	0.9	-
15	50.0	7.0
16	3.3	7.8
17	10.4	22.0
18	1.3	7.1
19	2.2	3.8
20	0.6	2.3
21	0.9	2.7
22	0.6	4.2
23	-	7.4
24	2.8	6.9
25	4.9	9.2
26	6.4	7.0
27	5.6	6.4
28	4.3	4.7
29	3.7	-
30	2.1	1.5
31	-	-
32	-	-
n-paraffins (ppm)	8.22	5.86
Pristane (ppm)	6.01	3.16
Phytane (ppm)	0.13	0.14
Pr/Py	46.2	22.6
Pr/C$_{17}$	7.1	2.5
Py/C$_{18}$	1.2	0.3
CPI$_{14-20}$	11.7	2.1
CPI$_{20-32}$	0.9	1.0
Total Alkanes	14.36	9.16

[a] The code and order of samples correspond to Tables 6 and 7.

TABLE 20

CONCENTRATION OF ALKANES[1] IN MONTHLY MACRONEKTON FROM THE SOUTH TEXAS OCS (APRIL 1977)

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (µg/g dry wt.)
Southern Bank	BGUY-M[a]	Vermilion snapper *Rhomboplites aurorubens*	91.0	1.04
	BGUY-L		2.4	28.08
	BGUY-Gd		0.9	25.31
Southern Bank	BGUZ-M	Red snapper *Lutjanus campechanus*	87.4	0.40
	BGUZ-L		4.2	15.07
	BGUZ-Gd		0.3	37.53

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[1] Total Alkanes includes total paraffins, pristane and phytane

[a] M = muscle; L = liver; Gd = gonad.

TABLE 21

ORGANS AND INDIVIDUALS ANALYZED IN MONTHLY MACRONEKTON (APRIL 1977)

Station/ Transect	Code	Species	Organ Used[a]	No. of Individuals
Southern Bank	BGUY-M[a]	Vermilion snapper *Rhomboplites aurorubens*	M	1
	BGUY-L		L	1
	BGUY-Gd		Gd	1
Southern Bank	BGUZ-M	Red snapper *Lutjanus campechanus*	M	1
	BGUZ-L		L	1
	BGUZ-Gd		Gd	1

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[a] M = muscle; L = liver; Gd = gonad.

TABLE 22

PERCENT DISTRIBUTION OF n-PARAFFINS IN MONTHLY MACRONEKTON FROM THE SOUTH TEXAS OCS (APRIL 1977)

STATION	Southern Bank	Southern Bank	Southern Bank	Southern Bank	Southern Bank	Southern Bank
SAMPLE CODE[a]	BGUY-M	BGUY-L	BGUY-Gd	BGUZ-M	BGUZ-L	BGUZ-Gd
CARBON NO.						
14	–	1.2	0.4	–	0.3	–
15	55.1	52.6	61.5	78.5	62.5	31.4
16	2.6	3.2	4.6	2.8	3.7	7.0
17	6.6	4.1	9.9	11.4	11.7	18.3
18	1.4	1.6	2.6	–	1.4	4.7
19	2.6	2.8	3.3	2.2	1.5	3.1
20	–	0.6	1.0	–	0.4	1.7
21	1.2	0.8	1.1	–	0.7	1.6
22	1.9	0.7	1.3	–	0.7	2.2
23	3.1	–	2.1	1.6	1.4	3.7
24	4.0	2.2	2.1	1.6	1.3	3.6
25	4.8	6.9	2.8	1.9	2.6	4.2
26	3.8	1.1	2.1	–	1.5	3.7
27	2.6	6.0	1.8	–	2.3	3.9
28	2.3	2.1	1.2	–	1.7	4.5
29	2.1	9.9	1.4	–	3.6	3.8
30	2.8	4.2	0.8	–	2.4	2.6
31	–	–	–	–	–	–
32	3.1	–	–	–	0.3	–
n-paraffins (ppm)	0.43	11.30	10.02	0.32	10.46	30.02
Pristane (ppm)	0.61	16.68	15.21	0.08	4.56	7.24
Phytane (ppm)	–	0.10	0.08	–	0.05	0.27
Pr/Py	–	166.8	190.1	–	91.2	26.8
Pr/C_{17}	20.3	36.3	15.4	2.0	3.7	1.3
Py/C_{18}	–	0.6	0.3	–	0.3	0.2
CPI_{14-20}	16.1	10.5	9.5	32.9	13.9	4.2
CPI_{20-32}	0.9	2.2	1.2	2.2	1.3	1.0
Total Alkanes	1.04	28.08	25.31	0.40	15.07	37.53

[a] The code and order of samples correspond to Tables 9 and 10.

TABLE 23

Organs and Individuals Analyzed in Seasonal Macronekton (Spring 1977)

Station/ Transect	Code	Species	Organ Used	# of Individual Fish
Hospital Rock	BLCH→BLCL-M	Vermilion snapper *Rhomboplites aurorubens*	M	5
	BLCH→BLCL-L		L	5
	BLCH→BLCL-Gd		Gd	5
Southern Bank	BLCR→BLCV-M	Vermilion snapper *Rhomboplites aurorubens*	M	5
	BLCR→BLCV-L		L	5
	BLCR→BLCV-Gd		Gd	5
Hospital Rock	BLDB→BLDF-M	Red snapper *Lutjanus campechanus*	M	5
	BLDB→BLDF-L		L	5
	BLDB→BLDF-Gd		Gd	5
Southern Bank	BLDL→BLDP-M	Red snapper *Lutjanus campechanus*	M	5
	BLDL→BLDP-L		L	5
	BLDL→BLDP-Gd		Gd	5

M = muscle; L = liver; Gd = gonad

TABLE 24

Concentration of Alkanes in Seasonal Macronekton from the South Texas OCS (Spring 1977)

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (μg/g dry wt.)
Hospital Rock	BLCH→BLCL-M	Vermilion snapper *Rhomboplites aurorubens*	98.1	2.41
	BLCH→BLCL-L		9.4	10.40
	BLCH→BLCL-Gd		14.1	4.79
Southern Bank	BLCR→BLCV-M	Vermilion snapper *Rhomboplites aurorubens*	98.8	0.91
	BLCR→BLCV-L		7.5	8.48
	BLCR→BLCV-Gd		3.2	2.33
Hospital Rock	BLDB→BLDF-M	Red snapper *Lutjanus campechanus*	87.1	0.19
	BLDB→BLDF-L		19.3	1.13
	BLDB→BLDF-Gd		7.8	1.74
Southern Bank	BLDL→BLDP-M	Red snapper *Lutjanus campechanus*	97.6	0.04
	BLDL→BLDP-L		14.7	2.48
	BLDL→BLDP-Gd		5.9	17.67

TABLE 25

Percent Distribution of n-Paraffins in Seasonal Macronekton from the South Texas OCS (Spring 1977)

STATION	HOSPITAL ROCK	HOSPITAL ROCK	HOSPITAL ROCK	SOUTHERN BANK
SAMPLE CODE	BLCH→BLCL-M	BLCH→BLCL-L	BLCH→BLCL-Gd	BLCR→BLCV-M
CARBON NO.				
14	3.5	-	1.2	7.3
15	82.2	92.3	77.4	50.0
16	3.2	0.5	3.6	12.0
17	2.5	1.1	3.7	4.1
18	1.0	0.2	1.3	3.3
19	2.6	0.5	2.6	23.3
20	-	0.1	0.4	-
21	0.5	0.3	0.9	-
22	0.5	0.3	0.6	-
23	0.7	0.7	0.9	-
24	0.6	0.5	0.7	-
25	0.8	0.9	1.3	-
26	0.5	0.5	0.7	-
27	0.5	0.7	1.3	-
28	0.4	0.4	1.5	-
29	0.5	0.8	0.9	-
30	-	0.2	0.7	-
31	-	-	-	-
32	-	-	0.3	-
Total paraffin	1.25	9.11	1.79	0.15
Pristane	1.15	1.26	2.97	0.76
Phytane	0.01	0.03	0.03	-
Pr/Py	115.0	42.0	99.0	-
Pr/C$_{17}$	38.3	12.6	42.4	76.0
Py/C$_{18}$	1.0	1.5	1.5	-
CPI$_{14-20}$	16.1	125.8	14.8	4.2
CPI$_{20-32}$	1.5	1.8	1.2	-
Total alkanes	2.41	10.40	4.79	0.91

TABLE 25 CONT'D

STATION	SOUTHERN BANK	SOUTHERN BANK	HOSPITAL ROCK	HOSPITAL ROCK
SAMPLE CODE	BLCR→BLCV-L	BLCR→BLCV-Gd	BLDB→BLDF-M	BLDB→BLDF-L
CARBON NO.				
14	3.4	-	-	7.6
15	78.2	10.2	18.6	38.0
16	3.3	2.8	-	7.6
17	3.7	17.5	5.1	18.3
18	0.6	3.6	4.5	2.2
19	1.7	3.0	5.1	-
20	0.2	1.5	4.5	1.0
21	2.0	1.8	3.2	1.9
22	0.2	2.6	3.2	1.4
23	2.2	8.4	5.1	2.2
24	0.1	5.9	8.3	1.9
25	2.7	11.0	11.5	2.1
26	0.2	9.0	9.0	2.6
27	1.5	9.0	7.2	2.6
28	-	6.3	3.8	-
29	-	5.2	5.8	6.8
30	-	2.2	5.1	3.8
31	-	-	-	-
32	-	-	-	-
Total paraffin	4.30	0.81	0.16	0.63
Pristane	4.15	1.51	0.03	0.46
Phytane	0.03	0.01	-	0.04
Pr/Py	138.3	151.0	-	11.5
Pr/C_{17}	25.9	10.8	3.0	3.8
Py/C_{18}	1.0	0.3	-	4.0
CPI_{14-20}	15.9	4.4	4.8	4.2
CPI_{20-32}	14.4	1.3	1.0	1.5
Total alkanes	8.48	2.33	0.19	1.13

TABLE 25 CONT'D

STATION	HOSPITAL ROCK	SOUTHERN BANK	SOUTHERN BANK	SOUTHERN BANK
SAMPLE CODE	BLDB→BLDF-Gd	BLDL→BLDP-M	BLDL→BLDG-L	BLDL→BLDP-Gd
CARBON NO.				
14	-	-	-	1.5
15	18.1	100.0	33.3	65.8
16	3.5	-	5.6	3.6
17	17.5	-	16.8	17.5
18	4.7	-	6.6	1.9
19	3.5	-	9.9	2.2
20	1.8	-	4.8	0.3
21	2.9	-	3.0	0.4
22	2.3	-	1.2	0.3
23	5.5	-	2.6	0.6
24	4.3	-	2.6	0.6
25	6.6	-	4.2	0.9
26	5.6	-	3.4	0.7
27	5.1	-	3.3	0.7
28	5.9	-	2.7	0.8
29	5.2	-	-	0.9
30	5.0	-	-	0.7
31	-	-	-	-
32	2.5	-	-	0.6
Total paraffin	1.00	0.01	1.68	12.07
Pristane	0.72	0.03	0.67	5.44
Phytane	0.02	-	0.13	0.16
Pr/Py	36.0	-	5.2	34.0
Pr/C_{17}	4.0	-	2.4	2.6
Py/C_{18}	0.4	-	1.2	0.7
CPI_{14-20}	4.3	-	4.2	13.5
CPI_{20-32}	1.0	-	1.1	1.0
Total alkanes	1.74	0.04	2.48	17.67

TABLE 26

Organs and Individuals Analyzed in Monthly Macronekton (July 1977)

Station/ Transect	Code	Species	Organ Used	# of Individual Fish
Southern Bank	BMPF-M	Red snapper *Lutjanus campechanus*	M	1
	BMPF-L		L	1
	BMPF-Gd		Gd	1
Southern Bank	BMPG-M	Vermilion snapper *Rhomboplites aurorubens*	M	1
	BMPG-L		L	1
	BMPG-Gd		Gd	1

M = muscle; L = liver; Gd = gonad

TABLE 27

Concentration of Alkanes in Monthly Macronekton from the South Texas OCS (July 1977)

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (µg/g dry wt.)
Southern Bank	BMPF-M	Red snapper *Lutjanus campechanus*	92.9	0.03
	BMPF-L		3.0	3.28
	BMPF-Gd		0.4	55.13
Southern Bank	BMPG-M	Vermilion snapper *Rhomboplites aurorubens*	93.0	0.98
	BMPG-L		1.4	12.82
	BMPG-Gd		1.2	5.87

TABLE 28

Percent Distribution of n-Paraffins in Monthly Macronekton from the South Texas OCS (July 1977)

STATION	SOUTHERN BANK	SOUTHERN BANK	SOUTHERN BANK	SOUTHERN BANK
SAMPLE CODE	BMPF-M	BMPF-L	BMPF-Gd	BMPG-M
CARBON NO.				
14	-	-	-	-
15	-	17.9	22.0	68.3
16	-	4.7	5.9	4.3
17	-	12.0	40.8	15.0
18	-	4.8	7.7	2.6
19	-	2.5	5.1	5.6
20	-	1.3	1.7	-
21	-	1.8	1.2	-
22	-	2.1	1.4	-
23	-	6.5	1.7	-
24	-	4.6	1.5	-
25	-	5.7	1.7	2.1
26	-	4.6	1.4	-
27	-	4.0	1.5	-
28	-	6.9	1.3	-
29	-	10.2	2.1	2.1
30	-	7.6	1.7	-
31	-	-	-	-
32	-	2.8	1.3	-
Total paraffin	-	2.12	15.08	0.23
Pristane	0.03	1.13	39.31	0.75
Phytane	-	0.03	0.74	-
Pr/Py	-	37.7	53.1	-
Pr/C$_{17}$	-	4.5	6.4	18.8
Py/C$_{18}$	-	0.3	0.6	-
CPI$_{14-20}$	-	3.2	4.7	12.9
CPI$_{20-32}$	-	1.0	0.9	-
Total alkanes	0.03	3.28	55.13	0.98

TABLE 28 CONT'D

STATION	SOUTHERN BANK	SOUTHERN BANK
SAMPLE CODE	BMPG-L	BMPG-Gd
CARBON NO.		
14	–	–
15	19.2	–
16	6.7	–
17	14.3	8.1
18	6.6	6.5
19	3.9	4.3
20	2.4	2.5
21	3.2	1.9
22	2.9	3.2
23	7.2	11.7
24	2.5	7.7
25	6.4	13.3
26	2.1	8.8
27	2.5	9.9
28	–	8.1
29	11.4	7.4
30	7.6	5.5
31	–	–
32	1.1	2.0
Total paraffin	6.84	2.88
Pristane	5.87	2.93
Phytane	0.11	0.06
Pr/Py	53.4	48.8
Pr/C_{17}	6.0	12.7
Py/C_{18}	0.2	0.3
CPI_{14-20}	2.6	1.6
CPI_{20-32}	1.8	1.2
Total alkanes	12.82	5.87

TABLE 29

Organs and Individuals Analyzed in Monthly Macronekton (August 1977)

Station/ Transect	Code	Species	Organ Used [a]	# of Individual Fish
Southern Bank	BSDZ-M[a]	Vermilion snapper *Rhomboplites aurorubens*	M	1
	BSDZ-L		L	1
	BSDZ-Gd		Gd	1
Southern Bank	BSEA-M	Red snapper *Lutjanus campechanus*	M	1
	BSEA-L		L	1
	BSEA-Gd		Gd	1

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[a] M = muscle; L = liver; Gd = gonad.

TABLE 30

Concentration of Alkanes[1] in Monthly Macronekton from the South Texas OCS (August 1977)

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (μg/g dry wt.)
Southern Bank	BSDZ-M[a]	Vermilion snapper *Rhomboplites aurorubens*	97.6	0.92
	BSDZ-L		2.6	18.53
	BSDZ-Gd		7.5	4.09
Southern Bank	BSEA-M	Red snapper *Lutjanus campechanus*	97.6	-
	BSEA-L		3.9	4.67
	BSEA-Gd		0.4	9.20

---

[1] Total Alkanes includes total paraffins, pristane and phytane.

[a] M = muscle; L = liver; Gd = gonad.

TABLE 31

Percent Distribution of n-Paraffins in Monthly Macronekton from the South Texas OCS (August 1977)

STATION	Southern Bank	Southern Bank	Southern Bank	Southern Bank	Southern Bank	Southern Bank
SAMPLE CODE	BSDZ-M	BSDZ-L	BSDZ-Gd	BSEA-M	BSEA-L	BSEA-Gd
CARBON NO.						
14	1.7	3.1	0.5	–	0.9	0.3
15	86.1	67.2	24.7	–	41.2	1.1
16	2.7	5.2	4.2	–	8.7	2.2
17	7.4	6.4	16.4	–	17.7	16.3
18	0.8	2.4	4.6	–	5.6	7.2
19	1.3	2.3	5.7	–	3.3	6.0
20	–	0.7	2.6	–	1.4	3.3
21	–	1.1	4.0	–	1.7	3.1
22	–	0.8	2.3	–	1.7	5.4
23	–	1.2	5.4	–	1.7	9.0
24	–	1.0	3.4	–	1.8	13.7
25	–	1.4	5.6	–	2.2	14.6
26	–	1.5	3.8	–	1.9	7.8
27	–	1.5	4.4	–	2.7	4.5
28	–	1.5	4.7	–	2.2	2.2
29	–	1.5	1.7	–	2.1	–
30	–	0.6	2.6	–	1.7	2.3
31	–	–	–	–	–	–
32	–	0.6	3.4	–	1.5	1.0
Total paraffin	0.71	14.98	1.33	–	3.96	8.67
Pristane	0.21	3.49	2.73	–	0.67	0.46
Phytane	–	0.06	0.03	–	0.04	0.07
Pr/Py	–	58.2	91.0	–	16.8	6.6
Pr/C_{17}	4.2	3.6	12.4	–	1.0	0.3
Py/C_{18}	–	0.2	0.5	–	0.2	0.1
CPI_{14-20}	22.7	8.1	4.6	–	4.0	2.1
CPI_{20-32}	–	1.1	1.1	–	1.0	0.9
Total Alkanes	0.92	18.53	4.09	–	4.67	9.20

TABLE 32

Concentration of Alkanes[1] in Seasonal Macronekton from the South Texas OCS (Fall 1977)

Station/ Transect	Code	Species	Sample Wt. (g)	Conc. in ppm (μg/g dry wt.)
Southern Bank	BSQK→N-M	Red snapper *Lutjanus campechanus*	91.0	0.53
	BSQK→N-L		10.6	6.64
	BSQK→N-Gd		5.3	98.56
Southern Bank	BSQO→V-M	Vermilion snapper *Rhomboplites aurorubens*	106.2	0.05
	BSQO→V-L		8.7	7.21
	BSQO→V-Gd		5.2	3.04

---

[1] Total Alkanes includes total paraffins, pristane and phytane.

TABLE 33

Organs and Individuals Analyzed in Seasonal Macronekton (Fall 1977)

Station/ Transect	Code	Species	Organ Used[a]	# of Individual Fish
Southern Bank	BSQK→N-M	Red snapper *Lutjanus campechanus*	M	4
	BSQK→N-L		L	4
	BSQK→N-Gd		Gd	4
Southern Bank	BSQO→V-M	Vermilion snapper *Rhomboplites aurorubens*	M	8
	BSQO→V-L		L	8
	BSQO→V-Gd		Gd	8

---

[a] M = muscle; L = liver; Gd = gonad.

TABLE 34

Percent Distribution of n-Paraffins in Seasonal Macronekton from the South Texas OCS (Fall 1977)

STATION	Southern Bank	Southern Bank	Southern Bank	Southern Bank	Southern Bank	Southern Bank
SAMPLE CODE	BSQK→N-M	BSQK→N-L	BSQK→N-Gd	BSQO→V-M	BSQO→V-L	BSQO→V-Gd
CARBON NO.						
14	3.0	8.7	3.9	-	13.8	14.7
15	27.6	49.4	67.7	100	54.3	43.7
16	1.7	7.5	2.5	-	4.3	10.7
17	6.0	20.4	20.1	-	8.3	9.3
18	1.3	1.0	0.8	-	0.6	3.0
19	2.1	3.6	2.2	-	1.0	1.8
20	2.3	0.4	0.1	-	-	0.9
21	3.2	1.1	0.2	-	2.7	1.8
22	6.0	0.4	0.2	-	0.8	1.7
23	10.6	0.8	0.4	-	1.5	2.9
24	12.1	0.7	0.3	-	1.7	3.5
25	12.5	1.2	0.5	-	1.8	2.4
26	7.4	1.1	0.6	-	1.9	2.7
27	4.2	1.4	0.5	-	3.0	0.9
28	-	1.0	-	-	1.3	-
29	-	0.3	-	-	3.0	-
30	-	1.0	-	-	-	-
31	-	-	-	-	-	-
32	-	-	-	-	-	-
Total paraffin	0.47	3.98	58.56	0.02	3.87	2.22
Pristane	0.06	2.58	39.83	0.03	3.32	0.80
Phytane	-	0.08	0.17	-	0.02	0.02
Pr/Py	-	32.3	234.3	-	166.0	40.0
Pr/C_{17}	2.0	3.2	3.4	-	10.4	3.8
Py/C_{18}	-	2.0	0.4	-	1.0	0.3
CPI_{14-20}	6.3	6.3	19.5	-	8.2	2.8
CPI_{20-32}	1.2	1.1	1.4	-	2.1	1.0
Total Alkanes	0.53	6.64	98.56	0.05	7.21	3.04

TABLE 35

CONCENTRATION OF ALKANES[1] IN MONTHLY MACRONEKTON FROM THE SOUTH TEXAS OCS (NOVEMBER 1977)

Station/ Transect	Code	Species	Sample Wt.(g)	Conc. in ppm (μg /g dry wt.)
Southern Bank	BTWF-M[a]	Red snapper Lutjanus campechanus	97.6	0.54
Southern Bank	BTWF-L		1.0	8.16
Southern Bank	BTWF-Gd		0.1	68.27
Southern Bank	BTWE-M	Vermilion snapper Rhomboplites aurorubens	106.6	0.10
Southern Bank	BTWE-L		1.3	26.83
Southern Bank	BTWE-Gd		1.5	4.75

---

[1] Total Alkanes includes total paraffins, pristane and phytane.

[a] M=muscle; L=liver; Gd=gonad.

TABLE 36

ORGANS AND INDIVIDUALS ANALYZED IN MONTHLY MACRONEKTON (NOVEMBER 1977)

Station/ Transect	Code	Species	Organ Used.[a]	No. of Individuals
Southern Bank	BTWF-M[a]	Red snapper Lutjanus campechanus	M	1
Southern Bank	BTWF-L		L	1
Southern Bank	BTWF-Gd		Gd	1
Southern Bank	BTWE-M	Vermilion snapper Rhomboplites aurorubens	M	1
Southern Bank	BTWE-L		L	1
Southern Bank	BTWE-Gd		Gd	1

---

[a] M=muscle; L=liver; Gd=gonad.

TABLE 37

PERCENT DISTRIBUTION OF n-PARAFFINS IN MONTHLY MACRONEKTON FROM THE SOUTH TEXAS OCS (NOVEMBER 1977)

STATION	Southern Bank	Southern Bank	Southern Bank	Southern Bank
SAMPLE CODE	BTWF-M	BTWF-L	BTWF-Gd	BTWE-M
CARBON NO.				
14	4.8	-	-	-
15	57.3	25.7	9.6	77.8
16	8.1	17.1	18.3	-
17	18.2	21.0	27.3	22.2
18	5.5	14.6	10.9	-
19	3.7	3.9	5.4	-
20	-	3.5	2.0	-
21	-	5.5	2.5	-
22	-	2.9	3.1	-
23	-	2.9	4.7	-
24	1.2	2.9	6.3	-
25	1.2	-	9.9	-
26	-	-	-	-
27	-	-	-	-
28	-	-	-	-
29	-	-	-	-
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
Total n-paraffins (ppm)	0.43	7.04	48.86	0.05
Pristane (ppm)	0.10	0.93	18.29	0.05
Phytane (ppm)	0.01	0.19	1.12	-
Pr/Py	10.0	4.9	16.3	-
Pr/C_{17}	1.3	0.6	1.4	5.0
Py/C_{18}	0.5	0.2	0.2	-
CPI_{14-20}	5.1	1.5	1.4	-
CPI_{20-32}	1.0	1.2	1.7	-
Total Alkanes (ppm)	0.54	8.16	68.27	0.10

TABLE 37 CONT'D

STATION	Southern Bank	Southern Bank
SAMPLE CODE	BTWE-L	BTWE-Gd
CARBON NO.		
14	5.2	--
15	67.7	11.5
16	7.5	11.4
17	8.8	24.7
18	3.0	15.1
19	0.9	6.2
20	0.5	3.6
21	0.7	3.6
22	0.2	3.5
23	1.2	4.5
24	0.8	5.1
25	1.7	7.4
26	0.8	3.4
27	1.0	--
28	-	--
29	-	--
30	-	--
31	-	--
32	-	--
Total _n_-paraffins (ppm)	22.41	4.06
Pristane (ppm)	4.31	0.61
Phytane (ppm)	0.11	0.08
Pr/Py	39.2	7.6
Pr/C_{17}	2.2	0.6
Py/C_{18}	0.2	0.1
CPI_{14-20}	6.0	1.5
CPI_{20-32}	2.3	1.1
Total Alkanes (ppm)	26.83	4.75

TABLE 38

CONCENTRATION OF ALKANES[1] IN MONTHLY MACRONEKTON FROM THE SOUTH TEXAS OCS (DECEMBER 1977)

Station/ Transect	Code	Species	Sample Wt.(g)	Conc. in ppm (μg/g dry wt.)
Southern Bank	BUHB-M[a]	Red snapper *Lutjanus campechanus*	110.8	0.03
Southern Bank	BUHB-L		4.2	1.99
Southern Bank	BUHB-Gd		0.7	14.23
Southern Bank	BUHC-M	Vermilion snapper *Rhomboplites aurorubens*	112.1	0.02
Southern Bank	BUHC-L		1.5	13.58
Southern Bank	BUHC-Gd		2.4	2.32

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[1] Total Alkanes includes total paraffins, pristane and phytane.

[a] M=muscle; L=liver; Gd=gonad.

TABLE 39

ORGANS AND INDIVIDUALS ANALYZED IN MONTHLY MACRONEKTON (DECEMBER 1977)

Station/ Transect	Code	Species	Organ Used[a]	No. of Individuals
Southern Bank	BUHB-M[a]	Red snapper *Lutjanus campechanus*	M	1
Southern Bank	BUHB-L		L	1
Southern Bank	BUHB-Gd		Gd	1
Southern Bank	BUHC-M	Vermilion snapper *Rhomboplites aurorubens*	M	1
Southern Bank	BUHC-L		L	1
Southern Bank	BUHC-Gd		Gd	1

---

[a] M=muscle; L=liver; Gd=gonad.

TABLE 40

PERCENT DISTRIBUTION OF n-PARAFFINS IN MONTHLY MACRONEKTON FROM THE SOUTH TEXAS OCS (DECEMBER 1977)

STATION	Southern Bank	Southern Bank	Southern Bank	Southern Bank
SAMPLE CODE	BUHB-M	BUHB-L	BUHB-Gd	BUHC-M
CARBON NO.				
14	-	-	-	-
15	25.0	31.1	12.8	100.0
16	-	12.7	16.9	-
17	75.0	25.1	37.1	-
18	-	8.1	10.5	-
19	-	3.0	6.7	-
20	-	1.8	2.3	-
21	-	2.6	1.6	-
22	-	1.4	1.5	-
23	-	1.9	1.6	-
24	-	1.8	2.0	-
25	-	3.8	2.7	-
26	-	1.5	2.0	-
27	-	2.2	2.3	-
28	-	3.0	-	-
29	-	-	-	-
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
Total n-paraffins (ppm)	0.02	1.80	11.75	0.01
Pristane (ppm)	0.01	0.17	2.30	0.01
Phytane (ppm)	-	0.02	0.18	-
Pr/Py	-	8.5	12.8	-
Pr/C_{17}	0.5	0.4	0.5	-
Py/C_{18}	-	0.1	0.2	-
CPI_{14-20}	-	2.7	2.0	-
CPI_{20-32}	-	1.2	1.3	-
Total Alkanes (ppm)	0.03	1.99	14.23	0.02

TABLE 40 CONT'D

STATION	Southern Bank	Southern Bank
SAMPLE CODE	BUHC-L	BUHC-Gd
CARBON NO.		
14	-	-
15	7.8	5.2
16	9.4	28.1
17	10.3	33.6
18	5.4	18.4
19	2.3	9.3
20	1.9	3.4
21	4.0	2.0
22	5.6	-
23	7.5	-
24	8.9	-
25	12.2	-
26	6.5	-
27	5.7	-
28	9.3	-
29	2.1	-
30	1.1	-
31	-	-
32	-	-
Total n-paraffins (ppm)	11.31	1.89
Pristane (ppm)	2.15	0.38
Phytane (ppm)	0.12	0.05
Pr/Py	17.9	7.6
Pr/C_{17}	1.8	0.6
Py/C_{18}	0.2	0.1
CPI_{14-20}	1.3	1.0
CPI_{20-32}	1.0	-
Total Alkanes (ppm)	13.58	2.32

TABLE 41

PERCENT DISTRIBUTION OF n-ALKANES IN SHIP'S CONTAMINANTS FROM THE SOUTH TEXAS OCS (1977)

SAMPLE CODE	BELM (Oily Bilge Water)	BELO (Ship's Lubricant)	BELQ (Fuel Oil)
CARBON NO.			
13	–	0.2	14.0
14	–	0.2	9.4
15	6.9	3.2	17.6
16	–	6.0	13.5
17	4.6	10.5	13.1
18	4.6	12.1	10.9
19	5.3	16.9	8.4
20	4.6	14.0	5.3
21	4.6	12.9	3.6
22	7.6	8.6	2.1
23	9.2	6.8	1.1
24	13.0	7.7	0.6
25	16.0	0.9	0.3
26	14.4	–	0.1
27	9.2	–	–
28	–	–	–
29	–	–	–
30	–	–	–
31	–	–	–
32	–	–	–
Total paraffin	0.13	2027.27	117255.75
Pristane	0.04	138.70	8851.48
Phytane	0.01	163.11	4035.73
Pr/Py	4.0	0.9	2.2
Pr/C_{17}	4.0	0.7	0.6
Py/C_{18}	1.0	0.7	0.3
CPI_{14-20}	2.7	1.3	1.2
CPI_{20-32}	1.1	1.0	1.2
Total alkanes	0.18	2329.08	130142.96

TABLE 42

CONCENTRATIONS OF AROMATIC COMPOUNDS IN SHIP'S CONTAMINANTS FROM THE SOUTH TEXAS OCS

SAMPLE CODE	BELM (Oily Bilge Water)	BELO (Ship's Lubricant)	BELQ (Fuel Oil)
AROMATIC HYDROCARBONS	PPM	PPM	PPM
1,2,3-TRIMETHYLBENZENE	-	-	-
1,2,3,5-TETRAMETHYLBENZENE	-	92.93	-
1,2,3,4-TETRAMETHYLBENZENE	-	-	-
NAPHTHALENE	-	-	-
2-METHYLNAPHTHALENE	-	-	3724.99
1-METHYLNAPHTHALENE	-	-	2821.03
BIPHENYL	-	-	2431.24
2,6-DIMETHYLNAPHTHALENE	-	-	4482.49
1,3-DIMETHYLNAPHTHALENE	-	-	6866.97
2.3+1.5 DIMETHYLNAPHTHALENE	-	-	-
ACENAPHTHENE	-	43.61	-
4-PHENYLTOLUENE	-	-	1553.92
FLUORENE	-	-	2012.75
3.3'-DIMETHYLBIPHENYL	-	-	1641.63
4.4'-DIMETHYLBIPHENYL	-	-	987.50
9,10-DIHYDROPHENANTHRENE	-	34.59	1424.56
1-METHYLFLUORENE	0.58	43.97	1921.44
PHENANTHRENE	-	-	2777.97
ANTHRACENE	-	-	850.57
9-METHYLANTHRACENE	-	-	1777.21
FLUORANTHENE	-	-	603.57
PYRENE	0.95	427.13	132.57
CHRYSENE	4.75	553.43	358.39
NONADECYLBENZENE	-	-	-
5 α-CHOLESTANE	-	-	-
SQUALENE	64.95	6364.22	4201.26
TOTAL	70.87	7559.88	40,570.06

TABLE 43

COMPOUNDS IDENTIFIED BY GC-MS ANAYLSIS OF MAJOR COMPONENTS IN SAMPLES FROM THE SOUTH TEXAS OCS (1977)

SAMPLE CODE: BBEI
SAMPLE: Atlantic croaker

COMPOUNDS IDENTIFIED

ALIPHATIC	AROMATIC
n-Heptadecane (C_{17})	None Identifiable
Pristane	

SAMPLE CODE: BBGF
SAMPLE: Blackeared sea bass

COMPOUNDS IDENTIFIED

ALIPHATIC	AROMATIC
n-Pentadecane (C_{15})	None Identifiable
n-Hexadecane (C_{16})	
n-Heptadecane (C_{17})	
Pristane	

SAMPLE CODE: BBOH
SAMPLE: Wenchman

COMPOUNDS IDENTIFIED

ALIPHATIC	AROMATIC
n-Pentadecane (C_{15})	None Identifiable
n-Hexadecane (C_{16})	
n-Heptadecane (C_{17})	
Pristane	
n-Octadecane (C_{18})	
n-Nonadecane (C_{19})	

SAMPLE CODE: BBOI
SAMPLE: Squid

COMPOUNDS IDENTIFIED

ALIPHATIC	AROMATIC
n-Pentadecane (C_{15})	None Identifiable
Pristane	

SAMPLE CODE: BBZA
SAMPLE: Wenchman

COMPOUNDS IDENTIFIED

ALIPHATIC	AROMATIC
n-Pentadecane (C_{15})	None Identifiable
n-Hexadecane (C_{16})	
n-Heptadecane (C_{17})	
Pristane	

TABLE 43 Cont'd.

SAMPLE CODE: BHIF
SAMPLE: Butterfish

COMPOUNDS IDENTIFIED

ALIPHATIC
n-Pentadecane (C_{15})
n-Hexadecane (C_{16})
n-Heptadecane (C_{17})
Pristane
n-Octadecane (C_{18})

AROMATIC
1,3-Dimethylnaphthalene
Fluorene
Fluoranthene
Pyrene
Squalene

SAMPLE CODE: BHNN
SAMPLE: Wenchman

COMPOUNDS IDENTIFIED

ALIPHATIC
n-Pentadecane (C_{15})
n-Hexadecane (C_{16})
n-Heptadecane (C_{17})
Pristane
n-Octadecane (C_{18})
n-Nonadecane (C_{19})
n-Eicosane (C_{20})
n-Heneicosane (C_{21})
n-Tricosane (C_{23})

AROMATIC
None Identifiable

SAMPLE CODE: BIAJ
SAMPLE: Wenchman

COMPOUNDS IDENTIFIED

ALIPHATIC
n-Pentadecane (C_{15})
n-Hexadecane (C_{16})
n-Heptadecane (C_{17})
Pristane
n-Octadecane (C_{18})
n-Nonadecane (C_{19})

AROMATIC
Pyrene

SAMPLE CODE: BIHI
SAMPLE: Squid

COMPOUNDS IDENTIFIED

ALIPHATIC
n-Pentadecane (C_{15})
n-Hexadecane (C_{16})
n-Heptadecane (C_{17})
Pristane
n-Octadecane (C_{18})
n-Nonadecane (C_{19})
n-Eicosane (C_{20})
n-Heneicosane (C_{21})
n-Docosane (C_{22})
n-Tricosane (C_{23})

AROMATIC
Acenaphthene
Fluorene
9,10-Dihydrophenanthrene
Phenanthrene
Pyrene
Squalene

TABLE 43 Cont'd.

SAMPLE CODE: BIJG
SAMPLE: Red snapper

COMPOUNDS IDENTIFIED

ALIPHATIC
n-Pentadecane (C_{15})
n-Hexadecane (C_{16})
n-Heptadecane (C_{17})
Pristane
n-Octadecane (C_{18})
n-Nonadecane (C_{19})
n-Heneicosane (C_{21})
n-Tricosane (C_{23})
n-Tetracosane (C_{24})
n-Pentacosane (C_{25})

AROMATIC
Biphenyl
9,10-Dihydrophenanthrene
Phenanthrene
Pyrene

SAMPLE CODE: BPFO
SAMPLE: Wenchman

COMPOUNDS IDENTIFIED

ALIPHATIC
n-Pentadecane (C_{15})
n-Hexadecane (C_{16})
n-Heptadecane (C_{17})
Pristane
n-Octadecane (C_{18})
n-Nonadecane (C_{19})

AROMATIC
Acenaphthene
3,3'-Dimethylbiphenyl
9,10-Dihydrophenanthrene
Phenanthrene
Anthracene
Pyrene
Squalene

SAMPLE CODE: BPVO
SAMPLE: Wenchman

COMPOUNDS IDENTIFIED

ALIPHATIC
n-Tetradecane (C_{14})
n-Pentadecane(C_{15})
n-Hexadecane (C_{16})
n-Heptadecane (C_{17})
Pristane
n-Octadecane (C_{18})
n-Nonadecane (C_{19})

AROMATIC
Squalene

SAMPLE CODE: BQID
SAMPLE: Wenchman

COMPOUNDS IDENTIFIED

ALIPHATIC
n-Pentadecane (C_{15})
n-Hexadecane (C_{16})
n-Heptadecane (C_{17})
Pristane
n-Octadecane (C_{18})
n-Nonadecane (C_{19})

AROMATIC
Squalene

TABLE 43 Cont'd.

SAMPLE CODE: BQPC
SAMPLE: Red snapper

COMPOUNDS IDENTIFIED

ALIPHATIC	AROMATIC
n-Tetradecane (C_{14})	Squalene
n-Pentadecane (C_{15})	
n-Hexadecane (C_{16})	
n-Heptadecane (C_{17})	
Pristane	
n-Octadecane (C_{18})	
Phytane	
n-Nonadecane (C_{19})	

SAMPLE CODE: BPST
SAMPLE: Longspine porgy

COMPOUNDS IDENTIFIED
AROMATIC
4-Phenyltoluene
Squalene

SAMPLE CODE: BQFW
SAMPLE: Black-eared sea bass

COMPOUNDS IDENTIFIED
AROMATIC
Squalene

SAMPLE CODE: BQFX
SAMPLE: Red snapper

COMPOUNDS IDENTIFIED
AROMATIC
Squalene

SAMPLE CODE: BQRF
SAMPLE: Black-eared sea bass

COMPOUNDS IDENTIFIED
AROMATIC
Phenanthrene
Anthracene
Squalene

SAMPLE CODE: BSQK→N-Gd
SAMPLE:

COMPOUNDS IDENTIFIED
AROMATIC
2-Methylnaphthalene
1-Methylnaphthalene
2,6-Dimethylnaphthalene
1,3-Dimethylnaphthalene
Acenaphthene
9,10-Dihydrophenanthrene
Squalene

TABLE 43 Cont'd.

SAMPLE CODE: BUEA
SAMPLE: Croaker - 10 Kg

COMPOUNDS IDENTIFIED

AROMATIC

Squalene

SAMPLE CODE: BUEB
SAMPLE: Croaker - 10 Kg

COMPOUNDS IDENTIFIED

AROMATIC

Naphthalene
2-Methylnaphthalene
1-Methylnaphthalene
Biphenyl
2,6-Dimethylnaphthalene
1,3-Dimethylnaphthalene
4-Phenyltoluene
Squalene

SAMPLE CODE: BUEC
SAMPLE: Rough scad - 10 Kg

COMPOUNDS IDENTIFIED

AROMATIC

Naphthalene
2-Methylnaphthalene
Squalene

SAMPLE CODE: BULL
SAMPLE: Wenchman - 10 Kg

COMPOUNDS IDENTIFIED

AROMATIC

Biphenyl
1,3-Dimethylnaphthalene
Phenanthrene
Squalene

SAMPLE CODE: BLBP
SAMPLE: Butterfish

COMPOUNDS IDENTIFIED

ALIPHATIC

n-Tetradecane (C_{14})
n-Pentadecane (C_{15})
n-Hexadecane (C_{16})
n-Heptadecane (C_{17})
Pristane
n-Octadecane (C_{18})
Phytane
n-Nonadecane (C_{19})
n-Heneicosane (C_{21})
n-Tricosane (C_{23})

AROMATIC

2,6-Dimethylnaphthalene
4-Phenyltoluene
Fluorene
Phenanthrene
Squalene

TABLE 43 Cont'd.

SAMPLE CODE: BELO
SAMPLE TYPE: Ship's Lubricant

COMPOUNDS IDENTIFIED

ALIPHATIC

- *n*-Tridecane (C_{13})
- *n*-Tetradecane (C_{14})
- *n*-Pentadecane (C_{15})
- *n*-Hexadecane (C_{16})
- *n*-Heptadecane (C_{17})
- Pristane
- *n*-Octadecane (C_{18})
- Phytane
- *n*-Nonadecane (C_{19})
- *n*-Eicosane (C_{20})
- *n*-Heneicosane (C_{21})
- *n*-Docosane (C_{22})
- *n*-Tricosane (C_{23})
- *n*-Tetracosane (C_{24})

AROMATIC

- Acenaphthene
- 9,10-Dihydrophenanthene
- 1-Methylfluorene
- Pyrene
- Squalene

SAMPLE CODE: BELQ
SAMPLE TYPE: Fuel Oil

COMPOUNDS IDENTIFIED

ALIPHATIC

- *n*-Tridecane (C_{13})
- *n*-Tetradecane (C_{14})
- *n*-Pentadecane (C_{15})
- *n*-Hexadecane (C_{16})
- *n*-Heptadecane (C_{17})
- Pristane
- *n*-Octadecane (C_{18})
- Phytane
- *n*-Nonadecane (C_{19})
- *n*-Eicosane (C_{20})
- *n*-Heneicosane (C_{21})
- *n*-Docosane (C_{22})
- *n*-Tetracosane (C_{24})

AROMATIC

- 2-Methylnaphthalene
- 1-Methylnaphthalene
- Biphenyl
- 2,6-Dimethylnaphthalene
- 1,3-Dimethylnaphthalene
- 4-Phenyltoluene
- Phenanthrene

APPENDIX E

TRACE METALS PROJECT

List of Tables

Table Page

1 Raw Data Tabulation from the BLM-STOCS Study Trace Metals Project E-2

TABLE 1

RAW DATA TABULATION FROM THE BLM-STOCS STUDY TRACE METALS PROJECT

Explanation of Table:

First Column contains sample code (For *L. campechanus* and *R. aurorubens*, each sample code refers to a single fish sampled. For all other sample types this code denotes an entire sample composed of five or more individual organisms.)

Second Column contains genus, species names of samples:

Lutjanus campechanus	Red snapper
Penaeus aztecus	Brown shrimp
Penaeus setiferus	White shrimp
Pristipomoides aquilonaris	Wenchman
Rhomboplites aurorubens	Vermilion snapper
Serranus atrobranchus	Blackear bass
Stenotomus caprinus	Longspine porgy
Trachurus lathami	Rough scad
ZPL	Zooplankton

Third Column contains suffixes on all samples except zooplankton:

F - Muscle tissue pooled from all individuals in a sample;
G - Gill tissue pooled from all individuals in a sample;
LP - Liver tissue pooled from ≥ 2 individual fish within a sample;
LI - Liver tissue from a single fish;
HP - Hepatopancreatic tissue pooled from ≥ 2 individual shrimp within a sample;
HI - Hepatopancreatic tissue from a single shrimp.

Fourth Column contains Station/Transect, or Hospital Rock (HR) or Southern Bank (SB) designation.

Fifth Column contains season: (WIN-winter; SPR-spring; FAL-FALL)

Sixth Column contains dry weight (Sample dry weight in grams)

Columns seven through thirteen contain each metal concentration in mgms/kgm-parts per million (ppm) dry weight.

Eighth Column contains percent water: percentage of wet weight lost during freeze-drying to a constant dry weight. To convert from dry weight to wet weight concentrations, multipy dry weight concentrations by [(100% water)/100].

TABLE 1 CONT.'D

BLM	GENUS SPECIES		STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BDRQ-U	L. Campechanus	F	HR		WIN	1.314	<0.01	<0.02	0.6	3.	<0.05	<0.03	10.				77.1
BLCW-DA	L. Campechanus	F	HR		SPR	1.372	<0.01	<0.02	0.8	3.	<0.06	<0.03	10.	<0.06	17	550	77.7
BLDG-K	L. Campechanus	F	SB		SPR	1.357	<0.01	<0.01	0.6	3.	<0.06	<0.02	9.				77.8
BSQW-Y	L. Campechanus	F	SB		FAL	1.603	<0.01	<0.03	0.7	4.	<0.06	<0.05	11.	<0.04	13	<200	77.2
BDRQ-U	L. Campechanus	G	HR		WIN	0.446	0.19	0.2	2.4	250.	0.5	0.4	70.	<0.12	45	44,000	87.6
BLCW-DA	L. Campechanus	G	HR		SPR	0.563	0.08	0.05	1.1	160.	0.7	0.2	80.	0.20	65	85,000	87.2
BLDG-K	L. Campechanus	G	SB		SPR	0.631	0.15	0.03	1.9	160.	0.8	0.3	90.	0.25	55	48,000	85.7
BSQW-Y	L. Campechanus	G	SB		FAL	0.615	0.21	0.08	1.8	300.	0.4	0.3	80.	0.15	55	100,000	85.1
BDRQ-U	L. Campechanus	LP	HR		WIN	0.915	1.4	<0.02	15.	500.	<0.1	0.2	100.	0.20	25	1,100	75.9
BLCW-DA	L. Campechanus	LP	HR		SPR	1.002	1.3	0.02	13.	600.	<0.2	0.2	110.	0.30	20	950	73.4
BLDG-K	L. Campechanus	LP	SB		SPR	0.991	1.8	0.02	18.	300.	<0.1	0.3	110.	0.50	20	900	71.4
BSQW-Y	L. Campechanus	LP	SB		FAL	1.395	2.5	0.06	20.	800.	<0.4	0.1	140.	0.35	19	<200	73.4
BDRQ	L. Campechanus	LI	HR		WIN	1.368	1.6	0.2	14.	600.	<0.1	0.2	100.				73.5
BDRR	L. Campechanus	LI	HR		WIN	.825	0.9	<0.02	13.	400.	<0.09	0.1	90.	0.14	16	400	78.2
BDRS	L. Campechanus	LI	HR		WIN	.640	1.1	0.03	13.	300.	<0.1	0.1	130.	0.12	20	1,100	78.2
BDRT	L. Campechanus	LI	HR		WIN	1.013	0.9	0.02	24.	400.	<0.09	0.07	100.	0.14	18	400	73.5
BDRU	L. Campechanus	LI	HR		WIN	.728	0.7	0.02	10.	800.	<0.1	0.1	100.	0.09	19	650	76.1
BLCW	L. Campechanus	LI	HR		SPR	.607	2.1	0.02	16.	600.	<0.1	0.3	150.	0.40	20	1,900	78.1
BLCX	L. Campechanus	LI	HR		SPR	.502	0.6	<0.02	10.	800.	<0.2	0.1	120.	<0.17	30	<550	76.5
BLCY	L. Campechanus	LI	HR		SPR	.713	1.6	0.02	11.	700.	<0.1	0.2	90.	0.25	20	450	66.8
BLCZ	L. Campechanus	LI	HR		SPR	.462	1.6	0.03	16.	500.	<0.2	0.2	130.	0.55	30	1,500	77.1
BLDA	L. Campechanus	LI	HR		SPR	2.727	1.0	0.02	15.	230.	<0.1	0.2	100.	0.15	25	1,000	68.7
BLDC	L. Campechanus	LI	SB		SPR	.709	1.8	<0.02	40.	600.	<0.1	0.5	150.	0.35	20	750	76.0

TABLE 1 CONT.'D

BLM	GENUS	SPECIES		STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BLDH	L.	Campechanus	LI	SB		SPR	1.307	1.3	0.02	19.	300.	<0.09	0.09	100.	0.40	20	<300	69.7
BLDI	L.	Campechanus	LI	SB		SPR	2.056	1.0	0.02	9.	120.	<0.1	0.08	60.				59.0
BLDJ	L.	Campechanus	LI	SB		SPR	.427	1.6	<0.02	22.	700.	<0.2	0.2	140.	0.30	20	400	75.2
BLDK	L.	Campechanus	LI	SB		SPR	.458	1.8	0.03	13.	600.	<0.2	0.1	140.	1.20	80	950	77.3
BSQW	L.	Campechanus	LI	SB		FAL	3.334	0.9	0.05	7.	100.	<0.2	0.04	70.	0.10	17	<250	67.5
BSQX	L.	Campechanus	LI	SB		FAL	.290	3.	0.1	28.	1600.	<0.6	0.2	180.	0.50	55	<700	77.5
BSQY	L.	Campechanus	LI	SB		FAL	.562	4.	0.07	27.	1000.	<0.5	0.1	160.	0.30	25	<250	75.3
BBGK	P.	Aztecus	F	2	I	WIN	1.432	0.02	0.04	28.	5.	<0.09	<0.05	50.	<0.05	8	<250	76.8
BCPG	P.	Aztecus	F	2	II	WIN	1.284	0.02	0.05	27.	4.	<0.07	<0.03	50.				77.9
BBMU	P.	Aztecus	F	2	III	WIN	1.555	0.02	0.05	18.	3.	<0.08	0.1	50.	<0.05	19	850	76.1
BBXA	P.	Aztecus	F	2	III	WIN	1.415	0.10	0.1	28.	30.	<0.08	<0.04	50.	0.30	90	3,500	76.9
BBOL	P.	Aztecus	F	3	IV	WIN	1.536	0.04	0.03	22.	2.	0.1	0.08	40.	0.12	20	1,400	52.1
BGYQ	P.	Aztecus	F	2	I	SPR	0.470	0.08	0.03	20.	10.	0.1	<0.04	40.	0.35	25	1,900	79.5
BHIJ	P.	Aztecus	F	1	II	SPR	1.193	0.05	0.04	20.	4.	0.1	<0.04	50.				77.7
BHWJ	P.	Aztecus	F	1	III	SPR	0.889	0.06	0.03	30.	6.	0.1	<0.04	50.				77.7
BPBU	P.	Aztecus	F	1	I	FAL	1.215	0.01	0.04	25.	3.	<0.1	<0.05	60.	<0.07	18	1,200	74.8
BPDS	P.	Aztecus	F	2	I	FAL	1.450	0.01	0.04	21.	3.	<0.08	0.06	50.	<0.06	17	<1,400	75.6
BPQX	P.	Aztecus	F	1	II	FAL	1.466	0.02	0.04	27.	3.	<0.06	0.07	60.				75.5
BQDU	P.	Aztecus	F	1	III	FAL	1.399	0.01	0.03	28.	3.	0.1	<0.05	60.	<0.06	13	1,100	76.2
BQGA	P.	Aztecus	F	2	III	FAL	1.477	0.01	0.05	26.	3.	<0.07	<0.06	70.	0.11	17	1,500	75.5
BQPD	P.	Aztecus	F	1	IV	FAL	1.493	0.01	0.03	20.	3.	<0.07	<0.03	60.	<0.07	16	550	74.9
BQRG	P.	Aztecus	F	2	IV	FAL	1.420	0.01	0.05	23.	5.	<0.08	<0.05	60.	<0.05	13	2,000	75.7
BBGK	P.	Aztecus	HP	2	I	WIN	.093	10.	0.2	1100.	100.	5.	0.2	120.	13	9,500	4,500	77.4

TABLE 1 CONT.'D

BLM	GENUS	SPECIES		STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BBGK	P.	Aztecus	HI	2	I	WIN	.394	5.	0.2	500.	70.	3.	0.2	130.	5.5	80	1,500	71.6
BBGK	P.	Aztecus	HI	2	I	WIN	.324	6.	0.2	900.	130.	8.	0.2	110.	6.0	120	3,000	71.1
BCPG	P.	Aztecus	HP	2	II	WIN	.096	11.	0.4	1200.	.260.	15.	0.4	120.	12	250	3,700	76.6
BCPG	P.	Aztecus	HI	2	II	WIN	.258	6.	0.3	600.	200.	11.	0.4	120.	9.5	300	6,500	73.3
BCPG	P.	Aztecus	HI	2	II	WIN	.147	12.	0.5	1200.	200.	15.	0.2	110.	17	950	7,500	75.3
BBMU	P.	Aztecus	HI	2	III	WIN	1.010	14.	0.4	1000.	190.	15.	0.1	160.	4.5	150	2,500	65.8
BBMU	P.	Aztecus	HI	2	III	WIN	.767	10.	0.09	600.	60.	7.	<0.07	110.	2.5	35	1,600	64.6
BBMU	P.	Aztecus	HI	2	III	WIN	.247	13.	0.3	900.	140.	17.	0.3	120.	14	120	1,200	68.6
BBMU	P.	Aztecus	HI	2	III	WIN	.195	13.	0.8	1000.	400.	27.	0.5	120.	20	700	1,100	75.7
BBMU	P.	Aztecus	HI	2	III	WIN	.150	9.	0.6	900.	600.	10.	0.7	120.	7.0	150	5,000	79.1
BBOL	P.	Aztecus	HI	3	III	WIN	1.703	25.	0.4	400.	180.	8.	0.1	170.	7.5	190	4,500	69.2
BBOL	P.	Aztecus	HI	3	III	WIN	.716	20.	0.1	800.	80.	6.	0.1	110.	14	25	3,000	72.7
BBXA	P.	Aztecus	HI	2	IV	WIN	1.364	4.	0.07	300.	60.	6.	<0.07	190.	4.0	40	1,800	66.2
BBXA	P.	Aztecus	HI	2	IV	WIN	.215	9.	0.2	500.	60.	6.	0.3	80.	5.0	55	2,000	69.3
BBXA	P.	Aztecus	HI	2	IV	WIN	.370	9.	0.2	500.	80.	10.	0.2	160.	5.0	75	<1,000	67.9
BBXA	P.	Aztecus	HI	2	IV	WIN	.231	8.	0.4	500.	170.	10.	0.2	80.	2.5	450	3,000	65.9
BBXA	P.	Aztecus	HI	2	IV	WIN	.132	16.	0.2	800.	130.	10.	0.4	110.	3.5	110	5,000	70.7
BGYQ	P.	Aztecus	HP	2	I	SPR	.052	2.5	0.9	300.	400.	4.	0.6	120.	3.5	1,300	6,500	72.4
BGYQ	P.	Aztecus	HP	2	I	SPR	.045	3.0	1.	240.	600.	5.	0.6	140.	<0.16	25	<170	78.8
BHIJ	P.	Aztecus	HP	1	II	SPR	.038	8.	1.	140.	700.	10.	1.	110.	0.95	350	2,000	73.5
BHIJ	P.	Aztecus	HP	1	II	SPR	.095	5.	0.4	400.	240.	9.	0.4	100.	1.2	200	3,100	74.8
BHIJ	P.	Aztecus	HP	1	II	SPR	.058	5.	2.	220.	800.	11.	0.8	130.				72.3
BHIJ	P.	Aztecus	HP	1	II	SPR	.108	10.	1.	230.	800.	11.	0.7	100.	2.6	1,400	5,000	69.1

TABLE 1 CONT.'D

BLM	GENUS SPECIES		STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BHWJ	P. Aztecus	HP	1	III	SPR	.100	1.3	0.3	400.	160.	2.	0.4	60.	4.5	950	12,000	64.9
BHWJ	P. Aztecus	HI	1	III	SPR	.171	3.0	0.4	230.	180.	2.	0.4	70.	1.7	500	10,000	67.6
BHWJ	P. Aztecus	HP	1	III	SPR	.073	2.5	0.5	300.	400.	5.	0.3	90.	16	80	4,000	72.1
BPBU	P. Aztecus	HI	1	I	FAL	.323	9.	0.4	70.	250.	2.	0.09	90.	0.60	<12	<600	63.7
BPBU	P. Aztecus	HI	1	I	FAL	.117	6.	0.3	400.	400.	3.	<0.01	100.	<3.0	<40	<3,000	76.8
BPBU	P. Aztecus	HI	1	I	FAL	.234	7.	0.2	19.	110.	3.	0.1	70.	3.0	45	<550	64.1
BPBU	P. Aztecus	HI	1	I	FAL	.177	3.	0.1	230.	50.	2.	<0.1	60.	25	<45	<2,000	63.6
BPDS	P. Aztecus	HP	2	I	FAL	.133	7.	0.5	300.	300.	12.	0.2	80.	2.0	350	<800	67.5
BPDS	P. Aztecus	HI	2	I	FAL	.173	8.	0.3	800.	150.	10.	<0.1	70.	1.8	150	750	60.2
BPDS	P. Aztecus	HI	2	I	FAL	.502	12.	0.4	300.	300.	16.	<0.1	140.	1.6	<17	<1,100	68.0
BPDS	P. Aztecus	HI	2	I	FAL	.690	8.	0.4	100.	200.	15.	0.2	160.	8.5	1,300	<3,500	69.6
BPDS	P. Aztecus	HI	2	I	FAL	.477	15.	1.	700.	700.	30.	0.6	140.	0.75	180	1,400	68.3
BPDS	P. Aztecus	HI	2	I	FAL	.546	5.	0.4	40.	200.	10.	0.2	130.	0.30	45	<550	60.5
BPQX	P. Aztecus	HI	1	II	FAL	.137	11.	0.3	300.	180.	8.	0.2	80.	1.5	300	2,500	65.0
BPQX	P. Aztecus	HI	1	II	FAL	.233	8.	0.6	600.	300.	14.	0.3	80.	1.2	250	<800	62.3
BPQX	P. Aztecus	HI	1	II	FAL	.250	5.	0.4	40.	400.	11.	0.5	100.	3.0	550	<1,400	66.2
BPQX	P. Aztecus	HI	1	II	FAL	.107	15.	1.	1000.	500.	10.	0.5	190.	3.5	1,100	6,000	77.5
BPQX	P. Aztecus	HI	1	II	FAL	.296	6.	0.2	30.	70.	2.	<0.07	70.	0.50	100	1,400	57.2
BPQX	P. Aztecus	HI	1	II	FAL	.243	9.	0.4	50.	240.	20.	0.4	130.				67.0
BQDU	P. Aztecus	HI	1	III	FAL	.392	8.	0.2	800.	60.	3.	0.07	70.	0.55	55	<550	60.9
BQDU	P. Aztecus	HI	1	III	FAL	.41	7.	0.8	400.	300.	4.	0.3	70.	1.5	400	950	68.7
BQDU	P. Aztecus	HI	1	III	FAL	.58	4.	0.3	260.	110.	3.	0.1	70.	0.80	140	2,000	66.1
BQDU	P. Aztecus	HI	1	III	FAL	.38	5.	0.2	200.	170.	2.	0.2	90.	0.80	300	2,500	67.0

TABLE 1 CONT.'D

BLM	GENUS SPECIES		STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BQDU	P. Aztecus	HI	1	III	FAL	.37	5.	0.4	600.	100.	2.	0.2	60.	0.50	95	1,100	64.4
BQDU	P. Aztecus	HI	1	III	FAL	.538	6.	0.3	160.	140.	1.	0.1	80.	0.60	250	2,000	63.9
BQDU	P. Aztecus	HI	1	III	FAL	.515	5.	0.4	500.	300.	2.	0.2	190.	1.0	500	<1,100	65.9
BQDU	P. Aztecus	HI	1	III	FAL	.522	8.	0.4	800.	140.	2.	0.1	70.	1.2	250	<1,100	65.2
BQDU	P. Aztecus	HI	1	III	FAL	.455	6.	0.3	220.	60.	2.	0.08	80.	0.90	100	2,500	59.3
BQDU	P. Aztecus	HI	1	III	FAL	.420	9.	0.2	210.	70.	3.	0.04	90.	0.85	150	4,500	67.2
BQGA	P. Aztecus	HI	2	III	FAL	.163	11.	0.7	760.	400.	8.	0.2	110.	30	<30	<1,900	69.4
BQGA	P. Aztecus	HI	2	III	FAL	.938	7.	0.5	250.	300.	6.	0.2	190.	3.0	30	<750	64.4
BQGA	P. Aztecus	HP	2	III	FAL	.102	16.	0.6	990.	300.	15.	0.1	110.	5.5	500	<1,100	71.6
BQPD	P. Aztecus	HI	1	IV	FAL	.124	4.	0.4	140.	300.	3.	0.3	80.				56.0
BQPD	P. Aztecus	HI	1	IV	FAL	.095	8.	1.	890.	500.	11.	0.5	150.	5.0	600	<4,500	73.1
BQPD	P. Aztecus	HI	1	IV	FAL	.211	8.	0.4	250.	400.	5.	0.3	90.				71.0
BQPD	P. Aztecus	HI	1	IV	FAL	.296	7.	0.3	260.	150.	6.	0.1	150.	2.5	120	<1,500	63.2
BQPD	P. Aztecus	HI	1	IV	FAL	.231	11.	0.5	170.	300.	5.	0.3	140.	3.5	350	<1,400	69.7
BQPD	P. Aztecus	HI	1	IV	FAL	.616	7.	0.3	140.	150.	3.	0.1	200.	1.2	110	4,500	67.4
BQPD	P. Aztecus	HI	1	IV	FAL	.925	5.	0.3	50.	180.	2.	0.08	170.	1.4	150	<1,400	65.9
BQPD	P. Aztecus	HI	1	IV	FAL	.208	12.	0.6	410.	300.	5.	0.3	140.	3.5	350	<1,800	71.7
BQRG	P. Aztecus	HI	2	IV	FAL	.153	10.	0.3	160.	180.	7.	0.2	90.	8.0	150	<1,500	64.0
BQRG	P. Aztecus	HI	2	IV	FAL	.126	12.	0.4	280.	170.	1.	0.2	90.	2.5	250	4,000	68.9
BQRG	P. Aztecus	HI	2	IV	FAL	.931	5.	0.2	30.	40.	2.	0.06	180.	1.0	55	<850	60.2
BCNH	P. Setiferus	F	1	II	WIN	1.365	0.02	0.04	21.	5.	<0.1	<0.06	50.				76.9
BBUS	P. Setiferus	F	1	IV	WIN	1.627	0.01	0.04	17.	<1.	<0.08	<0.06	30.	<0.06	16	<400	76.6

TABLE 1 CONT.'D

BLM	GENUS	SPECIES		STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BPBS	P.	Setiferus	F	1	I	FAL	1.454	0.01	0.03	21.	2.	<0.06	<0.03	60.	<0.06	16	750	75.4
BPQV	P.	Setiferus	F	1	II	FAL	1.433	<0.01	0.04	19.	2.	<0.05	<0.03	60.	<0.06	15	1,600	75.9
BCNH	P.	Setiferus	HP	1	II	WIN	.123	8.	0.5	600.	450.	10.	0.5	140.	5.5	1,200	6,000	76.3
BCNH	P.	Setiferus	HI	1	II	WIN	.192	3.	1.	1000.	600.	8.	0.5	140.	1.8	140	4,000	72.6
BCNH	P.	Setiferus	HI	1	II	WIN	.158	6.	0.3	500.	130.	4.	0.3	140.	3.5	300	5,500	77.7
BCNH	P.	Setiferus	HI	1	II	WIN	.233	6.	0.3	600.	140.	4.	0.3	130.	1.3	250	3,500	70.7
BBUS	P.	Setiferus	HI	1	IV	WIN	.462	8.	0.3	400.	120.	11.	0.2	140.	2.0	75	2,500	69.4
BBUS	P.	Setiferus	HI	1	IV	WIN	.206	10.	0.3	500.	300.	13.	0.5	160.	3.0	80	1,100	76.4
BBUS	P.	Setiferus	HI	1	IV	WIN	.336	7.	0.3	500.	120.	17.	0.3	140.	3.0	170	1,700	70.9
BPBS	P.	Setiferus	HI	1	I	FAL	.335	4.	0.3	230.	100.	3.	<0.05	90.	<0.60	<8	<550	66.3
BPBS	P.	Setiferus	HI	1	I	FAL	.285	5.	0.2	50.	70.	2.	<0.05	80.	<1.2	<20	<1,100	62.7
BPBS	P.	Setiferus	HI	1	I	FAL	.192	7.	0.2	40.	80.	4.	0.1	100.	<1.7	<20	<1,600	75.6
BPBS	P.	Setiferus	HI	1	I	FAL	.175	7.	0.2	100.	110.	5.	0.08	120.	1.8	60	<1,100	78.5
BPBS	P.	Setiferus	HP	1	I	FAL	.112	5.	2.	400.	600.	2.	0.4	150.	3.0	60	<1,600	82.5
BPBS	P.	Setiferus	HI	1	I	FAL	.239	6.	0.2	500.	80.	6.	0.04	100.	1.8	<11	<900	75.3
BPBS	P.	Setiferus	HI	1	I	FAL	.146	2.7	0.2	400.	210.	5.	<0.05	90.	1.3	<18	<950	70.8
BPBS	P.	Setiferus	HI	1	I	FAL	.195	4.	0.3	40.	50.	5.	<0.01	100.	1.5	80	<2,000	71.7
BPQV	P.	Setiferus	HP	1	II	FAL	.129	5.	0.3	70.	140.	12.	0.05	110.	<0.85	<14	<850	70.8
BPQV	P.	Setiferus	HI	1	II	FAL	.157	2.2	0.2	50.	110.	18.	0.04	120.	1.5	<14	<850	72.1
BPQV	P.	Setiferus	HI	1	II	FAL	.134	2.5	0.6	240.	600.	10.	0.2	180.	<2.5	<45	<2,000	78.3
BPQV	P.	Setiferus	HI	1	II	FAL	.228	4.	0.8	30.	400.	12.	0.2	100.	1.8	20	600	63.4
BBIH	P.	Aquilonaris	F	3	I	WIN	1.139	<0.01	0.04	1.7	5.	<0.09	<0.06	14.	<0.07	19	900	80.9

TABLE 1 CONT.'D

BLM	GENUS	SPECIES		STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BCRI	P.	Aquilonaris	F	3	II	WIN	1.129	<0.01	0.04	1.6	6.	<0.09	<0.04	13.	<0.07	19	600	81.4
BCRI	P.	Aquilonaris	F	3	II	WIN	1.17	<0.01	0.05	0.3	<1.	<0.1	<0.06	2.				NA
BBZD	P.	Aquilonaris	F	3	IV	WIN	1.13	<0.01	0.03	1.4	4.	<0.08	<0.06	12.	0.05	15	650	80.8
BBZD	P.	Aquilonaris	F	3	IV	WIN	1.16	<0.01	0.04	0.3	1.	<0.09	<0.08	2.				NA
BHAT	P.	Aquilonaris	F	3	I	SPR	0.987	<0.01	0.04	1.3	6.	<0.09	<0.03	13.	<0.08	20	950	72.5
BHNP	P.	Aquilonaris	F	3	II	SPR	1.106	<0.01	0.03	1.8	4.	<0.1	<0.06	15.	<0.05	16	<250	78.9
BIAN	P.	Aquilonaris	F	3	III	SPR	1.216	<0.01	0.04	1.6	4.	<0.09	<0.09	14.	<0.06	16	550	79.4
BIJL	P.	Aquilonaris	F	2	IV	SPR	1.071	<0.01	0.05	2.0	6.	<0.1	<0.04	14.	0.10	17	1,100	82.1
BILN	P.	Aquilonaris	F	3	IV	SPR	1.237	<0.01	0.07	1.4	5.	<0.1	<0.05	13.	<0.025	16	300	79.6
BPFR	P.	Aquilonaris	F	3	I	FAL	1.076	<0.01	0.05	0.8	3.	<0.04	<0.03	11.	<0.05	25	500	81.9
BPVQ	P.	Aquilonaris	F	3	II	FAL	1.065	<0.01	0.04	0.7	5.	<0.05	<0.03	9.	<0.06	16	350	82.2
BQ1G	P.	Aquilonaris	F	3	III	FAL	1.146	<0.01	0.03	0.6	5.	<0.04	<0.03	10.	<0.05	17	300	80.6
BQTJ	P.	Aquilonaris	F	3	IV	FAL	1.283	<0.01	0.04	0.6	4.	<0.04	<0.03	10.	<0.05	17	550	79.4
BBIH	P.	Aquilonaris	LI	3	I	WIN	.298	2.5	<0.01	13.	300.	<0.3	0.2	80.	0.20	40	<250	69.4
BBIH	P.	Aquilonaris	LI	3	I	WIN	.237	5.	0.14	11.	400.	<0.6	0.3	90.	0.55	120	4,000	74.6
BBIH	P.	Aquilonaris	LI	3	I	WIN	.420	2.0	<0.02	8.	200.	<0.2	0.09	80.				68.6
BBIH	P.	Aquilonaris	LI	3	I	WIN	.768	2.6	<0.01	16.	300.	<0.01	0.1	80.	0.25	20	200	63.3
BBIH	P.	Aquilonaris	LI	3	I	WIN	.188	4.	0.07	10.	600.	<0.8	0.2	100.	0.30	35	<500	69.7
BCRI	P.	Aquilonaris	LI	3	II	WIN	.601	4.	<0.01	40.	300.	<0.2	0.2	120.	0.90	18	350	60.4
BCRI	P.	Aquilonaris	LI	3	II	WIN	.232	1.3	<0.03	11.	400.	<0.3	0.2	100.	0.40	45	750	74.3
BCRI	P.	Aquilonaris	LI	3	II	WIN	.270	2.0	<0.01	11.	600.	<0.3	0.2	100.	0.35	25	350	70.6
BCRI	P.	Aquilonaris	LI	3	II	WIN	.286	1.8	<0.01	11.	300.	<0.3	0.2	100.	0.25	35	650	71.4
BBZD	P.	Aquilonaris	LI	3	II	WIN	.204	5.	<0.01	14.	1200.	<0.4	0.3	120.	1.7	35	<500	72.2

TABLE 1 CONT.'D

BLM	GENUS SPECIES		STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BBZD	P. Aquilonaris	LP	3	IV	WIN	.202	3.	0.08	17.	900.	<0.4	0.2	140.	0.65	25	600	76.5
BHAT	P. Aquilonaris	LI	3	I	SPR	.269	2.5	<0.03	15.	300.	<0.3	0.08	100.	0.45	40	<550	62.0
BHAT	P. Aquilonaris	LI	3	I	SPR	.141	4.	0.1	30.	600.	<0.5	0.3	160.	<0.25	30	<800	74.7
BHAT	P. Aquilonaris	LI	3	I	SPR	.185	1.9	<0.03	22.	700.	<0.5	0.2	130.	0.20	35	<450	66.5
BHAT	P. Aquilonaris	LI	3	I	SPR	.429	2.4	<0.01	12.	300.	<0.2	0.2	80.	0.40	25		64.4
BHNP	P. Aquilonaris	LI	3	II	SPR	.357	5.	<0.02	17.	400.	<0.2	0.3	90.	0.85	50	850	72.7
BHNP	P. Aquilonaris	LI	3	II	SPR	.687	3.	<0.01	40.	130.	<0.2	0.2	160.	<0.12	18	<300	57.4
BHNP	P. Aquilonaris	LI	3	II	SPR	.932	1.8	<0.01	11.	60.	<0.2	0.2	90.	<0.14	30	<300	56.6
BHNP	P. Aquilonaris	LI	3	II	SPR	.749	1.2	<0.01	30.	170.	<0.2	0.1	100.				58.5
BIAN	P. Aquilonaris	LI	3	III	SPR	.654	1.3	<0.01	30.	220.	<0.2	0.2	150.	0.35	25	<400	63.5
BIJL	P. Aquilonaris	LP	2	IV	SPR	.024	1.6	<0.02	13.	400.	<0.6	0.2	110.	0.60	65	<1,800	82.6
BILN	P. Aquilonaris	LI	3	IV	SPR	.539	3.	0.09	50.	400.	0.4	0.3	160.	0.65	25	400	62.8
BILN	P. Aquilonaris	LI	3	IV	SPR	.447	3.	0.06	30.	600.	<0.2	0.1	110.	0.55	19	<400	66.9
BPFR	P. Aquilonaris	LP	3	I	FAL	.037	5.	0.3	30.	1300.	<0.3	<0.01	160.	0.75	55	<800	75.0
BPFR	P. Aquilonaris	LI	3	I	FAL	.314	9.	0.2	50.	900.	0.9	0.1	130.	1.5	50	<600	65.1
BPFR	P. Aquilonaris	LI	3	I	FAL	.156	15.	0.2	40.	1400.	1.	0.7	160.	1.6	40	<600	77.5
BPVQ	P. Aquilonaris	LI	3	II	FAL	.180	3.	0.2	21.	600.	<0.2	0.1	120.	0.40	40	<450	65.2
BPVQ	P. Aquilonaris	LP	3	II	FAL	.118	5.	0.1	21.	1000.	<0.4	0.4	150.	0.50	50	<600	73.8
BPVQ	P. Aquilonaris	LI	3	II	FAL	.162	3.	0.1	80.	600.	<0.3	0.1	180.	2.5	90	<1,500	66.2
BPVQ	P. Aquilonaris	LI	3	II	FAL	.169	8.	0.2	50.	1100.	<0.3	0.6	210.	1.5	50	<550	76.7
BPVQ	P. Aquilonaris	LI	3	II	FAL	.347	15.	0.1	40.	1000.	0.6	0.4	180.	3.5	45	<450	77.1
BQIG	P. Aquilonaris	LI	3	III	FAL	.170	1.9	0.1	10.	500.	<0.3	0.1	90.	0.45	55	<550	70.2
BQIG	P. Aquilonaris	LI	3	III	FAL	.250	1.8	<0.02	14.	300.	<0.3	0.2	90.	0.30	30	<450	64.5

TABLE 1 CONT.'D

BLM	GENUS	SPECIES		STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BQIG	P.	Aquilonaris	LI	3	III	FAL	.156	2.0	0.2	7.	500.	<0.3	0.2	90.	0.30	40	<600	71.2
BQTJ	P.	Aquilonaris	LI	3	IV	FAL	.316	3.	0.1	15.	500.	<0.2	0.2	110.	1.2	35	<300	71.0
BQTJ	P.	Aquilonaris	LI	3	IV	FAL	.184	1.5	0.3	11.	500.	<0.2	0.4	110.	0.60	110	<1,300	72.4
BQTJ	P.	Aquilonaris	LI	3	IV	FAL	.191	5.	0.2	80.	800.	<0.2	0.2	230.	0.40	40	<500	69.8
BQTJ	P.	Aquilonaris	LI	3	IV	FAL	.223	3.	0.07	18.	600.	<0.2	0.3	120.	0.45	40	<750	74.2
BQTJ	P.	Aquilonaris	LI	3	IV	FAL	.632	6.	0.05	30.	400.	<0.08	0.2	90.	1.70	17	<250	73.7
BDRV-Y	R.	Aurorubens	F	HR		WIN	1.309	<0.01	<0.02	0.8	6.	<0.07	<0.03	10.	<0.06	15	450	78.8
BLCC-G	R.	Aurorubens	F	HR		SPR	1.362	<0.01	<0.01	0.5	6.	<0.07	<0.02	8.				77.8
BLCM-Q	R.	Aurorubens	F	SB		SPR	1.386	<0.01	<0.02	0.6	5.	<0.07	<0.03	10.				77.7
BSQZ-RG	R.	Aurorubens	F	SB		FAL	1.316	<0.01	<0.03	0.6	6.	<0.07	<0.06	10.	<0.05	14	350	77.7
BDRV-Y	R	Aurorubens	G	HR		WIN	0.229	0.6	0.1	3.	400.	0.6	1.6	80.	1.2	65		87.9
BLCC-G	R.	Aurorubens	G	HR		SPR	0.223	0.5	0.08	3.	300.	0.6	1.8	90.	1.4	65	21,000	87.3
BLCM-Q	R.	Aurorubens	G	SB		SPR	0.200	0.3	0.07	3.	190.	0.6	1.4	100.	1.6	80		87.2
BSQZ-RG	R.	Aurorubens	G	SB		FAL	0.267	0.6	0.08	3.	300.	0.6	1.2	90.	0.50	25	75,000	86.4
BDRV-Y	R.	Aurorubens	LP	HR		WIN	0.691	8.	0.03	13.	600.	<0.2	0.2	160.	0.70	17	400	71.0
BLCC-G	R.	Aurorubens	LP	HR		SPR	0.480	8.	<0.02	30.	1000.	<0.1	0.3	460.	2.0	20	800	70.9
BLCM-Q	R.	Aurorubens	LP	SB		SPR	0.324	11.	0.03	40.	1100.	<0.1	0.4	380.				75.5
BSQZ-RG	R.	Aurorubens	LP	SB		FAL	0.237	18.	0.1	30.	2300.	<0.4	0.4	400.	2.0	20	<300	77.6
BDRV	R.	Aurorubens	LI	HR		WIN	1.023	10.	0.03	12.	900.	<0.1	0.53	100.	1.8	20	2,500	----
BDRW	R.	Aurorubens	LI	HR		WIN	.447	5.	0.04	14.	700.	<0.2	0.22	150.	0.95	30	950	70.8
BDRX	R.	Aurorubens	LI	HR		WIN	.513	8.	0.03	11.	400.	<0.2	0.23	160.	0.80	25	1,200	73.4
BDRY	R.	Aurorubens	LI	HR		WIN	.780	6.	0.02	14.	500.	<0.1	0.06	220.	0.60	19	350	68.9

TABLE 1 CONT.'D

BLM	GENUS SPECIES		STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BLCC	R. Aurorubens	LI	HR		SPR	.306	11.	0.08	13.	1000.	<0.5	0.55	230.				73.2
BLCD	R. Aurorubens	LI	HR		SPR	.476	10.	<0.02	18.	1400.	<0.2	0.32	320.	2.0	30	1,400	73.3
BLCE	R. Aurorubens	LI	HR		SPR	.392	5.	<0.02	70.	800.	<0.2	0.15	540.	0.45	16	800	70.0
BLCF	R. Aurorubens	LI	HR		SPR	.553	10.	<0.02	70.	600.	<0.4	0.11	830.				69.7
BLCG	R. Aurorubens	LI	HR		SPR	.675	12.	0.02	8.	900.	<0.1	0.48	240.	1.90	20	450	68.1
BLCM	R. Aurorubens	LP	SB		SPR	.253	6.	0.02	40.	800.	<0.2	0.31	240.	0.80	20	<500	75.9
BLCN	R. Aurorubens	LI	SB		SPR	.475	8.	0.03	30.	1000.	<0.2	0.24	510.				77.4
BLCQ	R. Aurorubens	LI	SB		SPR	.455	5.	0.03	60.	600.	<0.2	0.11	520.	0.50	20	1,100	70.5
BSQZ	R. Aurorubens	LI	SB		FAL	.246	11.	0.2	30.	1600.	<0.5	0.47	660.	1.40	40	<500	77.5
BSRA	R. Aurorubens	LI	SB		FAL	.198	30.	0.1	40.	2700.	<0.6	0.39	330.	2.0	500	<1,400	79.6
BSRB	R. Aurorubens	LI	SB		FAL	.173	10.	0.2	20.	2400	<0.8	0.53	260.	4.0	<19	<1,400	78.8
BSRC	R. Aurorubens	LI	SB		FAL	.274	14.	0.09	19.	1800.	<0.4	0.30	230.	0.90	35	<500	78.7
BSRD	R. Aurorubens	LI	SB		FAL	.192	19.	0.1	50.	1700.	<0.6	0.28	570.	<1.80	<20	<1,700	76.7
BSRE	R. Aurorubens	LI	SB		FAL	.411	12.	0.1	30.	1800.	<0.2	0.28	520.	<0.35	<5.0	<350	74.6
BSRF	R. Aurorubens	LI	SB		FAL	.177	21.	0.2	40.	2300.	<0.7	0.80	230.	6.0	<20	<1,600	76.8
BSRG	R. Aurorubens	LI	SB		FAL	.222	22.	0.3	30.	2300.	<0.6	0.54	380.	4.0	<20	<1,400	78.2
BBOM	S. Atrobranchus	F	3	III	WIN	1.160	<0.01	0.05	0.9	2.	<0.08	<0.05	12.	<0.06	14	1,000	82.5
BGYO	S. Atrobranchus	F	2	I	SPR	1.081	<0.01	0.04	1.6	4.	<0.09	<0.03	12.				81.6
BIAM	S. Atrobranchus	F	3	III	SPR	0.953	<0.01	0.05	1.8	4.	<0.08	<0.03	12.	0.10	15	2,000	83.8
BILM	S. Atrobranchus	F	3	IV	SPR	0.959	<0.01	0.05	1.6	6.	<0.08	<0.03	10.	0.12	30	1,200	83.6
BPFS	S. Atrobranchus	F	3	I	FAL	1.018	<0.01	0.05	0.5	3.	<0.08	<0.03	10.				83.0
BPSY	S. Atrobranchus	F	2	II	FAL	0.797	<0.01	0.06	---	4.	<0.09	<0.03	11.				80.6

TABLE 1 CONT.'D

BLM	GENUS	SPECIES		STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BPVP	S.	Atrobranchus	F	3	II	FAL	0.991	<0.01	0.06	0.6	4.	<0.08	<0.03	12.	<0.08	25	4,500	83.3
BQFZ	S.	Atrobranchus	F	2	III	FAL	1.085	<0.01	0.05	0.5	4.	<0.07	<0.03	11.	<0.05	20	1,400	82.0
BQIE	S.	Atrobranchus	F	3	III	FAL	1.036	<0.01	0.06	0.5	4.	<0.07	<0.02	11.	<0.07	14	1,600	82.6
BQRH	S.	Atrobranchus	F	2	IV	FAL	0.895	<0.01	0.07	0.6	6.	<0.08	<0.03	11.				82.7
BQTL	S.	Atrobranchus	F	3	IV	FAL	1.059	<0.01	0.08	0.5	4.	<0.08	<0.03	11.	0.07	14	3,500	82.5
BBOM	S.	Atrobranchus	LI	3	III	WIN	.139	1.6	<0.06	4.	130.	<0.6	0.1	60.				62.8
BBOM	S.	Atrobranchus	LP	3	III	WIN	.175	1.1	<0.01	3.	230.	<0.50	0.2	50.	0.30	70	1,100	68.9
BBOM	S.	Atrobranchus	LP	3	III	WIN	.172	1.3	<0.02	5.	240.	<0.6	0.1	60.	1.10	85	<1,500	70.2
BCRH	S.	Caprinus	F	3	II	WIN	1.170	<0.01	0.05	1.3	5.	<0.09	<0.05	13.	<0.07	13	<120	81.0
BBZE	S.	Caprinus	F	3	IV	WIN	1.283	<0.01	0.06	1.5	6.	<0.08	<0.03	13.				79.7
BHAU	S.	Caprinus	F	3	I	SPR	1.360	<0.01	0.05	1.3	5.	<0.08	<0.04	13.	0.08	16	650	78.0
BHNQ	S.	Caprinus	F	3	II	SPR	1.368	<0.01	0.03	1.5	4.	<0.07	<0.04	13.	<0.03	12	550	77.3
BIAL	S.	Caprinus	F	3	III	SPR	1.263	<0.01	0.04	1.1	5.	<0.08	<0.04	10.	<0.05	13	850	79.1
BPFQ	S.	Caprinus	F	3	I	FAL	1.259	<0.01	0.04	.90	6.	<0.09	<0.05	11.	0.06	15	400	79.1
BPSX	S.	Caprinus	F	2	II	FAL	0.884	<0.01	0.06	0.8	6.	<0.1	<0.06	13.				76.9
BPVR	S.	Caprinus	F	3	II	FAL	1.917	<0.01	0.03	0.7	5.	<0.07	<0.04	10.				78.8
BQFY	S.	Caprinus	F	2	III	FAL	1.161	<0.01	0.05	0.8	5.	<0.07	<0.06	12.				79.9
BQIF	S.	Gaprinus	F	3	III	FAL	1.257	<0.01	0.04	0.6	4.	<0.04	<0.05	11.				78.9
BQTK	S.	Caprinus	F	3	IV	FAL	1.312	<0.01	0.04	0.6	3.	<0.04	<0.04	12.	0.04	20	750	78.6
BCRH	S.	Caprinus	LP	3	II	WIN	.106	14.	0.08	16.	2300.	3.	20.	180.	2.0	60	2,500	74.8
BCRH	S.	Caprinus	LP	3	II	WIN	.126	11.	0.2	24.	1400.	1.2	4.	170.	1.2	45	<1,400	76.0
BCRH	S.	Caprinus	LI	3	II	WIN	.179	8.	0.2	12.	1700.	0.7	8.	160.	<0.85	55	<2,000	77.5
BBZE	S.	Caprinus	LP	3	IV	WIN	.093	1.1	0.2	40.	260.	<0.3	1.5	130.	1.80	45	600	78.2

TABLE 1 CONT.'D

BLM	GENUS SPECIES		STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BBZE	S. Caprinus	LP	3	IV	WIN	.063	1.7	0.2	12.	600.	<0.4	1.9	140.	1.2	35	1,500	75.4
BHAU	S. Caprinus	LI	3	I	SPR	.149	12.	0.2	100.	900.	1.0	4.	300.	5.0	80	<2,000	73.4
BHAU	S. Caprinus	LP	3	I	SPR	.129	8.	0.2	100.	1100.	1.1	4.	300.	<0.10	8.5	<75	73.8
BHNQ	S. Caprinus	LP	3	II	SPR	.092	3.	0.2	40.	800.	0.8	2.5	210.	2.0	35	950	76.1
BHNQ	S. Caprinus	LP	3	II	SPR	.104	6.	0.2	40.	1000.	2.	8.	220.	1.9	25	<700	73.9
BHNQ	S. Caprinus	LI	3	II	SPR	.135	11.	0.1	90.	1800.	1.1	8.	500.	1.9	65	<1,100	74.2
BIAL	S. Caprinus	LI	3	III	SPR	.125	7.	0.3	110.	900.	2.	4.	240.	1.2	40	1,700	69.1
BIAL	S. Caprinus	LI	3	III	SPR	.155	4.	0.2	50.	1000.	0.9	4.	170.	1.4	40	1,800	70.5
BIAL	S. Caprinus	LP	3	III	SPR	.068	2.1	0.2	26.	800.	0.7	2.6	160.	0.90	45	2,400	76.5
BPFQ	S. Caprinus	LP	3	I	FAL	.069	5.	0.2	30.	1000.	3.	5.	170.	6.0	65	<900	76.4
BPFQ	S. Caprinus	LI	3	I	FAL	.119	10.	0.3	60.	1600.	2.	0.3	230.	8.0	60	<950	75.5
BPSX	S. Caprinus	LP	2	II	FAL	.040	0.4	0.2	11.	400.	1.0	0.5	95.	<0.40	85	<1,000	75.2
BPVR	S. Caprinus	LP	3	II	FAL	.098	11.	0.2	50.	1100.	5.	18.	250.	2.5	55	<750	74.4
BPVR	S. Caprinus	LP	3	II	FAL	.082	11.	0.1	50.	1400.	3.	11.	260.	6.0	75	<700	77.1
BPVR	S. Caprinus	LP	3	II	FAL	.064	13.	0.1	70.	1400.	3.	8.	240.	3.0	50	<850	73.9
BQFY	S. Caprinus	LP	2	III	FAL	.066	0.9	0.2	17.	600.	<0.6	2.4	130.	0.35	55	<600	72.6
BQFY	S. Caprinus	LP	2	III	FAL	.050	25.	0.4	40.	2400.	2.	13.	270.	4.5	100	<1,700	78.5
BQIF	S. Caprinus	LP	3	III	FAL	.060	4.	0.1	50.	700.	1.3	2.2	190.	0.80	45	<1,200	74.5
BQIF	S. Caprinus	LI	3	III	FAL	.123	7.	0.1	25.	400.	1.2	6.	160.	1.7	60	<550	71.3
BQIF	S. Caprinus	LI	3	III	FAL	.114	12.	0.3	60.	1500.	2.	9.	220.	3.5	65	<950	73.5
BQTK	S. Caprinus	LP	3	III	FAL	.083	2.0	0.2	17.	280.	<0.3	2.1	130.	1.8	45	<700	67.3
BQTK	S. Caprinus	LP	3	III	FAL	.075	4.	0.2	25.	600.	<0.3	3.	180.	1.4	50	<700	72.6
BQTK	S. Caprinus	LI	3	III	FAL	.117	3.	0.1	40.	500.	<0.6	1.4	140.	3.5	160	<2,000	61.4

TABLE 1 CONT.'D

BLM	GENUS	SPECIES		STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BHLA	T.	Lathami	F	2	II	SPR	0.973	0.01	0.04	3.	18.	<0.08	<0.04	26.				81.2
BHYL	T.	Lathami	F	2	III	SPR	0.958	0.01	0.04	2.5	16.	<0.08	<0.04	25.	< 0.06	20	900	79.9
BIHK	T.	Lathami	F	1	IV	SPR	1.061	0.01	0.03	3.	17.	<0.09	<0.07	20.	0.07	18	1,200	81.4
BIHK	T.	Lathami	F	1	IV	SPR	1.146	0.01	0.07	3.	26.	<0.08	<0.09	19.	<0.05	14	<300	80.4
BIJK	T.	Lathami	F	2	IV	SPR	1.215	<0.01	0.03	2.6	17.	<0.09	<0.06	16.				79.7
BPSW	T.	Lathami	F	2	II	FAL	0.697	0.01	0.07	1.9	15.	<0.1	<0.03	12.	<0.14	40	1,000	81.9
BQDW	T.	Lathami	F	1	III	FAL	0.477	<0.01	0.11	2.3	24.	<0.1	<0.05	15.	<0.20	50	2,500	80.4
BQPF	T.	Lathami	F	1	IV	FAL	0.859	<0.01	0.07	1.4	11.	<0.08	<0.05	13.				80.4
BABM		ZPL		1	I	WIN	.209	1.1	8.	13.	2400.	3.	160.	500.	16	6,000	50,000	91.6
BADH		ZPL		2	I	WIN	.340	2.0	2.2	<6.	1200.	4.	1.8	200.	8.0	2,500	35,000	91.8
BADL		ZPL		2	I	WIN	.134	2.6	1.9	10.	1900.	5.	2.4	210.	9.5	3,500	30,000	92.7
BADM		ZPL		2	I	WIN	.167	2.1	4.	6.	1400.	6.	<0.05	190.				92.0
BAFI		ZPL		3	I	WIN	.724	5.0	1.4	15.	600.	4.	5.	120.	4.5	1,200	25,000	90.7
BAHW		ZPL		1	II	WIN	.294	2.0	1.6	11.	4700.	7.	2.5	250.				90.9
BAJY		ZPL		2	II	WIN	1.326	4.	1.4	11.	900.	4.	1.7	400.	11	650	25,000	89.1
BAKC		ZPL		2	II	WIN	1.944	4.	1.5	8.	1300.	4.	1.7	190.	13	650	17,000	89.0
BAKD		APL		2	II	WIN	.966	2.6	1.7	40.	1300.	3.	3.	500.	<0.07	5.0	<25,000	91.2
BAMF		ZPL		3	II	WIN	.956	4.	0.1	8.	70.	2.	0.9	90.	25	95	20,000	89.8
BARM		ZPL		1	III	WIN	.478	0.9	3.	12.	1700.	2.	11.	270.	9.5	3,000	20,000	89.8
BATH		ZPL		2	III	WIN	.393	2.8	3.	8.	1900.	4.	1.5	190.	9.5	4,500	60,000	91.9
BATK		ZPL		2	III	WIN	.655	2.7	5.	10.	1800.	3.	40.	170.	7.0	3,500	50,000	91.0
BATL		ZPL		2	III	WIN	.784	2.6	3.	10.	1900.	4.	1.7	170.	6.0	2,500	35,000	90.8
BAVH		ZPL		3	III	WIN	.201	6.	3.	10.	1900.	9.	4.	190.	6.5	3,000	25,000	----

TABLE 1 CONT.'D

BLM	GENUS SPECIES	STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BAXF	ZPL	1	IV	WIN	.132	3.	1.5	8.	1700.	7.	2.0	270.	16	4,000	19,000	93.3
BAZE	ZPL	2	IV	WIN	.814	4.	6.	12.	5600.	9.	6.	160.	4.0	1,200	<12,000	90.9
BAZH	ZPL	2	IV	WIN	.719	4.	7.	13.	6600.	7.	3.	170.	30	13,000	40,000	90.6
BAZI	ZPL	2	IV	WIN	.714	4.	5.	11.	5600.	7.	5.	160.	17	12,000	25,000	90.4
BBBE	ZPL	3	IV	WIN	.538	5.	1.8	8.	1400.	6.	1.7	130.	7.5	3,000	40,000	92.4
BIYP	ZPL	1	I	SPR	.128	2.2	0.5	10.	900.	6.	<2.2	120.	4.5	1,500	35,000	91.6
BIYU	ZPL	1	I	SPR	.063	3.	0.2	17.	1000.	4.	2.2	140.	6.0	1,900	40,000	94.3
BIYV	ZPL	1	I	SPR	.280	0.8	0.1	5.	400.	0.6	3.0	40.	<1.3	25	4,500	96.4
BJAR	ZPL	2	I	SPR	1.140	6.	0.6	25.	270.	2.	3.0	110.	1.3	350	60,000	89.8
BKCU	ZPL	3	I	SPR	2.199	7.	0.7	18.	2100.	3.	1.3	140.	1.4	350	65,000	89.9
BJEY	ZPL	1	II	SPR	.762	3.	1.3	15.	1900.	5.	1.3	190.	8.0	5,000	<17,000	91.8
BJFE	ZPL	1	II	SPR	.881	3.	1.5	20.	1800.	4.	1.3	190.	3.5	2,000	45,000	90.7
BJFF	ZPL	1	II	SPR	.833	2.2	2.3	13.	2000.	4.	1.7	180.	6.0	2,000	30,000	91.5
BJHB	ZPL	2	II	SPR	1.103	1.8	1.	12.	500.	2.	1.2	180.	2.5	800	90,000	91.0
BJJC	ZPL	3	II	SPR	2.921	3.	0.1	90.	80.	3.	0.6	150.	2.0	110	50,000	88.7
BJMF	ZPL	1	III	SPR	.555	4.	0.9	9.	600.	2.	<0.6	120.	5.5	1,200	<11,000	91.1
BJMK	ZPL	1	III	SPR	.539	3.	0.6	11.	500.	3.	<0.7	120.	5.5	1,300	<13,000	90.7
BJML	ZPL	1	III	SPR	.515	3.	1.1	11.	600.	2.	0.6	140.	6.5	1,400	<15,000	90.0
BJOG	ZPL	2	III	SPR	.703	3.	1.5	12.	700.	4.	0.8	150.	5.0	1,600	<17,000	90.7
BJQI	ZPL	3	III	SPR	.754	1.8	1.4	8.	700.	2.	0.8	170.	8.0	1,600	<20,000	91.3
BJSJ	ZPL	1	IV	SPR	.472	3.	2.0	14.	1000.	2.	1.8	260.	5.5	2,500	<15,000	91.4
BJSO	ZPL	1	IV	SPR	.643	3.	1.3	20.	1000.	2.	2.0	120.	4.5	2,000	<15,000	90.9
BJSP	ZPL	1	IV	SPR	.864	3.	1.8	17.	1000.	2.	2.6	120.	4.5	1,300	35,000	90.4

TABLE 1 CONT.'D

BLM	GENUS SPECIES	STATION	TRANSECT	SEASON	DRY WT	Cd	Cr	Cu	Fe	Ni	Pb	Zn	V	Al	Ca	% WATER
BJUK	ZPL	2	IV	SPR	2.192	3.	0.8	13.	400.	2.	1.4	50.	3.0	600	55,000	90.7
BJWM	ZPL	3	IV	SPR	.765	5.	0.1	14.	70.	3.	0.6	100.				89.6
BOBY	ZPL	1	I	FAL	.547	1.4	2.5	15.	1300.	2.	1.8	180.	4.0	3,000	40,000	90.0
BODY	ZPL	2	I	FAL	.224	2.3	6.	24.	4200.	8.	9.	170.	16	6,500	25,000	90.3
BOEC	ZPL	2	I	FAL	.613	3.	5.	60.	5000.	9.	11.	190.	12	6,500	50,000	89.0
BOED	ZPL	2	I	FAL	.381	2.6	4.	90.	3900.	7.	11.	180.	9	6,500	55,000	89.6
BOGA	ZPL	3	I	FAL	.186	6.	4.	70.	3900.	15.	12.	160.	25	10,000	30,000	90.8
BOIP	ZPL	1	II	FAL	.178	1.3	7.	40.	13000.	16.	30.	180.	40	25,000	25,000	89.1
BOKR	ZPL	2	II	FAL	.373	4.	9.	500.	7300.	12.	16.	170.	16	12,000	140,000	89.4
BOKW	ZPL	2	II	FAL	.186	2.8	9.	2600.	8300.	16.	70.	190.	25	13,000	120,000	90.8
BOKX	ZPL	2	II	FAL	.270	3.	9.	280.	7800.	10.	800.	400.	25	14,000	95,000	88.9
BOMV	ZPL	3	II	FAL	.476	6.	7.	19.	8100.	10.	12.	190.	20	12,000	30,000	90.2
BOPR	ZPL	1	III	FAL	.440	2.6	13.	60.	17000.	30.	40.	220.	60	30,000	50,000	84.4
BORR	ZPL	2	III	FAL	.339	4.	5.	15.	3600.	10.	--	200.	1.2	350	3,500	90.1
BORV	ZPL	2	III	FAL	.117	4.	5.	12.	6600.	11.	8.	500.	35	13,000	60,000	91.1
BORW	ZPL	2	III	FAL	.458	4.	4.	16.	3000.	7.	3.	240.	10	7,000	80,000	88.5
BOTT	ZPL	3	III	FAL	.269	4.	8.	13.	11000.	17.	10.	170.	37	17,000	35,000	89.9
BOVQ	ZPL	1	IV	FAL	.281	0.8	6.	20.	12000.	16.	40.	400.	35	20,000	35,000	88.6
BPXQ	ZPL	2	IV	FAL	.183	0.6	11.	120.	15000.	16.	140.	900.	35	25,000	55,000	93.2
BOXU	ZPL	2	IV	FAL	.120	1.	16.	300.	15000.	20.	120.	1700.	45	25,000	70,000	----
BOXV	ZPL	2	IV	FAL	.236	1.	14.	210.	10000.	20.	80.	2000.	30	16,000	45,000	91.1
BOZS	ZPL	3	IV	FAL	.203	6.	4.	56.	1600.	5.	14.	1000.	5.0	2,500	50,000	92.3

APPENDIX F

SEDIMENT TEXTURE

List of Tables

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1	Sediment Parameters Computed by Moment Measures to Determine Grain Size, Standard Deviation, Skewness, and Kurtosis. Percentages of Sand, Silt, Clay and Clay Finer than 10 phi for 1977 Samples.	F-2

TABLE 1

SEDIMENT PARAMETERS COMPUTED BY MOMENT MEASURES TO DETERMINE GRAIN SIZE, STANDARD DEVIATION, SKEWNESS, AND KURTOSIS. PERCENTAGES OF SAND, SILT, CLAY AND CLAY FINER THAN 10 phi FOR 1977 SAMPLES.

Explanation of Table:

Samples are listed by four letter sample codes followed by the letter W, S, or F, designating winter, spring or fall, respectively.

The numbers which follow are the station number, transect, and grab number (replicate). (Example BPAH F 1/1/1 = Sample BPSH, fall, Station 1/Transect I/Grab 1)

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        (1MG)        MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPAH F 1/I/1         5.43       3.46      1.16      -0.11       57.45      20.08      22.47      17.07
        (1MG)        MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPAK F 1/I/2         5.57       3.61      1.02      -0.46       54.88      20.79      24.32      18.99
        (1MG)        MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPAN F 1/I/3         4.94       3.43      1.37       0.40       66.80      13.98      19.22      15.08
        (1MG)        MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPAQ F 1/I/4         6.05       3.84      0.71      -1.01       48.50      20.70      30.80      23.68
        (1MG)        MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPAT F 1/I/5         6.34       3.87      0.58      -1.19       45.02      22.20      32.77      25.25
        (1MG)        MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPAW F 1/I/6         5.35       3.61      1.04      -0.32       57.72      18.93      23.35      17.44

        1/I  FALL 77       MEAN    S.D.     SKEW     KURT   %SAND   %SILT   %CLAY   %>10PHI
         STATION MEAN      5.62    3.64     0.98    -0.45   55.1    19.4    25.5    19.6
          STA. ST.DEV.     0.51    0.19     0.29     0.58    7.7     2.9     5.2     4.0


        (1MG)        MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPCG F 2/I/1         7.77       3.52      0.24      -1.39       19.51      35.81      44.69      34.17
        (1MG)        MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPCJ F 2/I/2         7.44       3.56      0.36      -1.36       25.59      32.26      42.15      31.16
        (1MG)        MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPCM F 2/I/3         7.27       3.50      0.47      -1.23       25.33      37.37      37.29      29.27
        (1MG)        MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPCP F 2/I/4         6.51       3.40      0.84      -0.75       34.50      36.88      28.62      22.69
        (1MG)        MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPCS F 2/I/5         6.41       3.38      0.86      -0.71       37.14      34.40      28.46      21.33
        (1MG)        MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPCV F 2/I/6         7.51       3.47      0.43      -1.26       19.51      45.05      35.44      32.37

        2/I  FALL 77       MEAN    S.D.     SKEW     KURT   %SAND   %SILT   %CLAY   %>10PHI
         STATION MEAN      7.15    3.47     0.53    -1.12   26.9    37.0    36.1    28.5
          STA. ST.DEV.     0.56    0.07     0.26     0.30    7.4     4.4     6.7     5.3
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPEF F 3/I/1        9.28       3.05      -0.27      -1.06       4.85      32.38      62.77      47.96
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPEI F 3/I/2        9.15       3.07      -0.22      -1.11       4.76      33.54      61.70      45.49
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPEL F 3/I/3        9.22       3.08      -0.33      -0.89       5.78      31.03      63.20      46.25
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPEO F 3/I/4        9.12       3.09      -0.24      -1.07       4.08      33.55      62.38      44.74
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPER F 3/I/5        8.91       3.17      -0.15      -1.22       3.84      36.65      59.51      43.07
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPEU F 3/I/6        9.10       3.07      -0.17      -1.17       4.24      35.06      60.70      45.12

     3/I  FALL 77         MEAN    S.D.     SKEW      KURT  %SAND   %SILT  %CLAY  %>10PHI
      STATION MEAN        9.13    3.09    -0.23     -1.09    4.6    33.7   61.7   45.4
       STA. ST.DEV.       0.13    0.04     0.07      0.11    0.7     2.0    1.4    1.6


        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPGC F 4/I/1        4.89       2.96       1.36       1.23      51.38      34.90      13.72       9.80
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPGF F 4/I/2        4.45       3.46       1.39       0.61      68.43      14.31      17.26      12.47
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPGI F 4/I/3        4.59       3.55       1.25       0.30      64.96      17.43      17.61      13.61
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPGL F 4/I/4        4.73       3.22       1.39       0.81      60.24      23.83      15.94      11.50
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPGO F 4/I/5        4.52       3.37       1.22       0.27      66.75      13.76      19.49       9.48
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPGR F 4/I/6        4.12       3.27       1.64       1.56      75.26      10.42      14.32      10.91

     4/I  FALL 77         MEAN    S.D.     SKEW      KURT  %SAND   %SILT  %CLAY  %>10PHI
      STATION MEAN        4.55    3.30     1.37      0.80   64.5    19.1   16.4   11.3
       STA. ST.DEV.       0.26    0.21     0.15      0.52    8.1     9.0    2.2    1.6
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    (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPHS F 5/I/1     10.01      2.81     -0.58    -0.70      0.77     23.10     76.13     58.93
    (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPHV F 5/I/2     10.24      2.54     -0.52    -0.66      0.50     18.36     81.14     59.60
    (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPHY F 5/I/3     10.14      2.60     -0.49    -0.72      0.97     22.82     76.21     58.27
    (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPIB F 5/I/4      9.90      2.80     -0.56    -0.53      2.50     23.92     73.58     55.31
    (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPIE F 5/I/5      8.45      3.60     -0.19    -1.34     18.40     23.63     57.97     41.47
    (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPIH F 5/I/6      9.58      2.40     -0.24    -0.29      1.73     24.14     74.13     37.46

    5/I  FALL 77       MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
     STATION MEAN      9.72    2.79    -0.43    -0.71    4.1   22.7   73.2   51.8
      STA. ST.DEV.     0.66    0.42     0.17     0.35    7.0    2.2    7.9    9.8



    (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPJI F 6/I/1      7.65      3.55      0.24    -1.33     20.76     36.96     42.28     32.77
    (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPJL F 6/I/2      8.20      3.41      0.09    -1.36     11.24     39.11     49.65     36.85
    (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPJO F 6/I/3      7.98      3.42      0.18    -1.34     14.81     37.93     47.26     34.39
    (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPJR F 6/I/4      7.59      3.54      0.27    -1.37     19.07     34.46     46.47     31.18
    (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPJU F 6/I/5      7.99      3.65      0.13    -1.47     17.95     36.63     45.43     39.46
    (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPJX F 6/I/6      7.40      3.60      0.31    -1.36     23.69     31.73     44.58     30.20

    6/I  FALL 77       MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
     STATION MEAN      7.80    3.53     0.20    -1.37   17.9   36.1   45.9   34.1
      STA. ST.DEV.     0.30    0.10     0.09     0.05    4.4    2.7    2.5    3.5
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        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BPPK F 1/II/1        7.41        3.52       0.37     -1.30      20.64       38.77       40.59       30.08
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BPPN F 1/II/2        7.64        3.65       0.22     -1.46      21.67       33.09       45.24       33.79
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BPPQ F 1/II/3        6.03        3.17       1.17     -0.01      32.40       45.03       22.58       17.80
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BPPT F 1/II/4        7.69        3.68       0.21     -1.47      21.48       33.21       45.32       35.45
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BPPW F 1/II/5        5.97        3.17       1.27      0.15      34.71       43.15       22.13       18.33
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BPPZ F 1/II/6        7.42        3.65       0.32     -1.38      24.24       33.98       41.78       32.04

        1/II  FALL 77       MEAN    S.D.      SKEW     KURT   %SAND   %SILT   %CLAY  %>10PHI
         STATION MEAN       7.03    3.47      0.60    -0.91    25.9    37.9    36.3    27.9
          STA. ST.DEV.      0.81    0.24      0.49     0.77     6.1     5.3    10.9     7.8


        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BPRL F 2/II/1        6.74        3.47       0.74     -0.99      30.61       36.93       32.46       25.14
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BPRO F 2/II/2        7.73        3.52       0.26     -1.41      20.40       33.60       45.99       33.45
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BPRR F 2/II/3        7.78        3.49       0.27     -1.38      18.85       37.14       44.00       33.95
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BPRU F 2/II/4        7.70        3.49       0.31     -1.39      18.41       37.28       44.31       33.10
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BPRX F 2/II/5        7.59        3.53       0.30     -1.36      21.03       35.47       43.50       32.09
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BPSA F 2/II/6        7.57        3.49       0.36     -1.36      18.05       39.78       42.16       31.21

        2/II  FALL 77       MEAN    S.D.      SKEW     KURT   %SAND   %SILT   %CLAY  %>10PHI
         STATION MEAN       7.52    3.50      0.37    -1.32    21.2    36.7    42.1    31.5
          STA. ST.DEV.      0.39    0.02      0.18     0.16     4.7     2.1     4.9     3.3
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      (1MG)         MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPUE F 3/II/1      9.52     3.01     -0.39     -1.01     3.90      28.10     68.00     51.40
      (1MG)         MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPUH F 3/II/2      9.50     3.01     -0.34     -1.10      3.41     30.12     66.48     51.77
      (1MG)         MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPUK F 3/II/3      9.52     2.99     -0.39     -0.96      3.60     29.23     67.16     50.89
      (1MG)         MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPUN F 3/II/4      9.39     3.10     -0.41     -0.94      5.09     27.88     67.03     49.69
      (1MG)         MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPUQ F 3/II/5      9.25     3.21     -0.41     -0.97      7.13     27.68     65.19     48.44
      (1MG)         MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPUT F 3/II/6      9.43     3.10     -0.45     -0.86      5.65     25.20     69.15     50.12

      3/II  FALL 77      MEAN   S.D.    SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN      9.43   3.07   -0.40    -0.97    4.8   28.0   67.2   50.4
        STA. ST.DEV.     0.11   0.08    0.04     0.08    1.4    1.7    1.3    1.2


      (1MG)         MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPWK F 4/II/1      8.12     3.56      0.12     -1.54     17.09     31.36     51.55     39.10
      (1MG)         MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPWN F 4/II/2      8.34     3.45      0.10     -1.50     11.35     38.35     50.30     41.15
      (1MG)         MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPWU F 4/II/3      8.08     3.41      0.19     -1.43     13.58     39.63     46.79     36.12
      (1MG)         MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPWT F 4/II/4      7.33     3.60      0.40     -1.34     24.18     35.68     40.14     31.24
      (1MG)         MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPWW F 4/II/5      7.93     3.56      0.15     -1.44     18.57     34.51     46.92     36.32
      (1MG)         MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BPWZ F 4/II/6      8.61     3.33     -0.02     -1.40      8.29     36.76     54.94     41.71

      4/II  FALL 77      MEAN   S.D.    SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN      8.07   3.49    0.16    -1.44   15.5   36.0   48.4   37.6
        STA. ST.DEV.     0.43   0.11    0.14     0.07    5.7    2.9    5.1    3.9
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     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY     % >10PHI
BPYJ F 5/II/1     7.84      3.55      0.25    -1.48     19.37     35.05     45.58     35.72
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY     % >10PHI
BPYM F 5/II/2     8.26      3.41      0.09    -1.44     13.89     36.37     49.73     38.27
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY     % >10PHI
BPYP F 5/II/3     8.15      3.38      0.19    -1.44     10.03     42.05     47.93     36.64
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY     % >10PHI
BPYS F 5/II/4     8.03      3.44      0.23    -1.44     14.44     39.51     46.05     36.57
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY     % >10PHI
BPYV F 5/II/5     8.84      3.24     -0.09    -1.37      6.66     35.38     57.96     43.75
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY     % >10PHI
BPYY F 5/II/6     8.85      3.26     -0.12    -1.33      7.96     33.08     58.96     43.96

     5/II  FALL 77      MEAN   S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN      8.33   3.38     0.09    -1.41   12.1   36.9   51.0   39.2
       STA. ST.DEV.     0.42   0.11     0.16     0.05    4.7    3.3    5.9    3.7


     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY     % >10PHI
BQAI F 6/II/1     9.22      3.08     -0.23    -1.17      4.76     33.88     61.36     46.99
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY     % >10PHI
BQAL F 6/II/2     9.81      2.73     -0.32    -1.02      1.44     28.28     70.28     53.11
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY     % >10PHI
BQAO F 6/II/3     9.85      2.74     -0.39    -0.91      1.49     26.58     71.93     53.95
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY     % >10PHI
BQAR F 6/II/4    10.16      2.51     -0.35    -0.96      0.02     24.48     75.50     57.71
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY     % >10PHI
BQAU F 6/II/5     9.96      2.63     -0.39    -0.83      1.18     23.24     75.58     54.22
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY     % >10PHI
BQAX F 6/II/6    10.11      2.56     -0.44    -0.79      0.04     21.25     78.71     56.34

     6/II  FALL 77      MEAN   S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN      9.85   2.71    -0.35    -0.95    1.5   26.3   72.2   53.7
       STA. ST.DEV.     0.34   0.20     0.07     0.14    1.7    4.5    6.1    3.7
     (1MG)        MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQCJ F 1/III/1   6.81       3.22      0.82    -0.72     18.83     49.56     31.61     22.20
     (1MG)        MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQCM F 1/III/2   6.83       3.29      0.80    -0.84     20.65     47.67     31.69     23.49
     (1MG)        MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQCP F 1/III/3   8.24       3.31      0.15    -1.41      9.07     39.29     51.64     36.06
     (1MG)        MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQCS F 1/III/4   8.57       3.24      0.08    -1.41      5.99     40.93     53.07     40.53
     (1MG)        MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQCV F 1/III/5   8.36       3.29      0.13    -1.40      8.43     40.19     51.38     37.74
     (1MG)        MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQCY F 1/III/6   7.53       3.30      0.49    -1.21     12.75     46.01     41.25     28.76

     1/III FALL 77      MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN      7.72    3.27     0.41    -1.16   12.6   43.9   43.4   31.5
       STA. ST.DEV.     0.78    0.04     0.34     0.31    6.0    4.3   10.1    7.7


     (1MG)        MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQEN F 2/III/1   8.16       3.32      0.23    -1.44      6.17     46.61     47.22     36.12
     (1MG)        MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQEQ F 2/III/2   8.77       3.22     -0.05    -1.41      4.33     38.57     57.10     41.90
     (1MG)        MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQET F 2/III/3   9.04       3.12     -0.11    -1.33      3.24     37.12     59.64     45.26
     (1MG)        MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQEW F 2/III/4   8.09       3.35      0.23    -1.41     10.66     42.32     47.02     35.77
     (1MG)        MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQEZ F 2/III/5   8.25       3.47      0.13    -1.49     13.16     37.88     48.96     40.30
     (1MG)        MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQFC F 2/III/6   8.25       3.37      0.15    -1.45      9.34     41.02     49.64     37.81

     2/III FALL 77      MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN      8.43    3.31     0.10    -1.42    7.8   40.6   51.6   39.5
       STA. ST.DEV.     0.39    0.12     0.15     0.05    3.9    3.5    5.4    3.7
     (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT     % CLAY    % >10PHI
BQGT F 3/III/1      9.11      2.67     -0.15    -0.77       2.03     28.28      69.69      33.43
     (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT     % CLAY    % >10PHI
BQGW F 3/III/2      9.45      2.95     -0.26    -1.16       2.43     32.52      65.05      49.68
     (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT     % CLAY    % >10PHI
BQGZ F 3/III/3      9.55      2.86     -0.24    -1.16       0.92     33.11      65.90      50.17
     (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT     % CLAY    % >10PHI
BQHC F 3/III/4      9.56      2.82     -0.19    -1.25       0.13     33.38      66.50      49.71
     (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT     % CLAY    % >10PHI
BQHF F 3/III/5      9.93      2.70     -0.42    -0.86       0.81     24.15      75.05      54.68
     (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT     % CLAY    % >10PHI
BQHI F 3/III/6      9.53      2.87     -0.29    -0.97       1.88     32.11      66.01      49.28

     3/III FALL 77         MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN         9.52    2.81    -0.26    -1.03    1.4   30.6   68.0   47.8
       STA. ST.DEV.        0.26    0.11     0.09     0.19    0.9    3.7    3.8    7.3


     (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT     % CLAY    % >10PHI
BQIV F 4/III/1      4.04      2.02      3.36    10.61      81.44     12.24       6.33       4.74
     (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT     % CLAY    % >10PHI
BQIY F 4/III/2      3.64      1.08      4.35    21.58      86.41     11.24       2.35       0.54
     (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT     % CLAY    % >10PHI
BQJB F 4/III/3      3.63      1.40      4.93    26.94      86.83     10.60       2.57       2.04
     (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT     % CLAY    % >10PHI
BQJE F 4/III/4      3.72      1.51      4.88    24.81      86.84     10.43       2.73       2.64
     (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT     % CLAY    % >10PHI
BQJH F 4/III/5      3.80      1.76      4.11    16.90      88.32      7.35       4.32       3.59
     (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT     % CLAY    % >10PHI
BQJK F 4/III/6      3.54      1.13      6.00    41.64      92.02      6.37       1.61       1.30

     4/III FALL 77         MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN         3.73    1.48     4.60    23.75   87.0    9.7    3.3    2.5
       STA. ST.DEV.        0.18    0.36     0.89    10.54    3.4    2.3    1.7    1.5
       (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BQKL F 5/III/1      9.08      3.27      -0.27      -1.28      6.10      30.76      63.14      47.42
       (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BQKO F 5/III/2      8.75      3.26      -0.08      -1.37      5.93      36.26      57.80      42.45
       (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BQKR F 5/III/3      8.96      3.19      -0.17      -1.27      7.23      32.65      60.12      44.04
       (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BQKU F 5/III/4      8.49      3.36       0.03      -1.43      9.90      37.29      52.81      40.46
       (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BQKX F 5/III/5      8.93      3.21      -0.12      -1.35      6.26      36.55      57.19      44.98
       (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BQLA F 5/III/6      8.88      3.27      -0.10      -1.40      4.50      38.56      56.94      45.26

     5/III FALL 77         MEAN    S.D.     SKEW      KURT   %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN        8.85    3.26    -0.12     -1.35    6.7   35.3   58.0   44.1
        STA. ST.DEV.       0.21    0.06     0.10      0.06    1.8    3.0    3.5    2.4



       (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BQMB F 6/III/1      9.32      2.99      -0.28      -1.09      1.80      32.77      65.43      46.56
       (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BQME F 6/III/2      9.73      2.76      -0.39      -0.83      1.80      25.25      72.95      50.68
       (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BQMH F 6/III/3      9.30      2.97      -0.23      -1.15      2.11      33.52      64.37      46.42
       (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BQMK F 6/III/4      9.63      2.83      -0.32      -1.01      1.45      29.82      68.74      50.62
       (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BQMN F 6/III/5      9.68      2.82      -0.35      -0.95      1.92      27.66      70.43      51.41
       (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BQMQ F 6/III/6      9.79      2.74      -0.35      -0.96      1.24      28.38      70.39      52.86

     6/III FALL 77         MEAN    S.D.     SKEW      KURT   %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN        9.58    2.85    -0.32     -1.00    1.7   29.6   68.7   49.8
        STA. ST.DEV.       0.21    0.10     0.06      0.11    0.3    3.2    3.3    2.7
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   (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQNR F 1/IV/1     4.22     3.68      1.42      0.50     71.13     10.64     18.22     14.23
   (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQNU F 1/IV/2     4.51     3.76      1.24      0.03     66.90     12.75     20.35     15.28
   (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQNX F 1/IV/3     4.36     3.81      1.29      0.12     68.32     11.95     19.72     15.55
   (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQOA F 1/IV/4     4.02     3.52      1.56      0.99     72.71     10.89     16.40     12.31
   (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQOD F 1/IV/5     4.98     4.01      0.95     -0.64     59.63     15.16     25.21     19.00
   (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQOG F 1/IV/6     4.18     3.77      1.29      0.26     67.70     13.55     18.75     13.89

   1/IV FALL 77        MEAN    S.D.    SKEW    KURT  %SAND  %SILT  %CLAY  %>10PHI
    STATION MEAN       4.38    3.76    1.29    0.21   67.7   12.5   19.8   15.0
     STA. ST.DEV.      0.34    0.16    0.21    0.54    4.5    1.7    3.0    2.3


   (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQPV F 2/IV/1     9.32     3.07     -0.29     -1.09      3.08     32.90     64.02     48.91
   (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQPY F 2/IV/2     8.21     3.60     -0.11     -1.23     14.02     33.96     52.02     38.64
   (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQQB F 2/IV/3     9.36     3.14     -0.45     -0.76      4.67     30.17     65.16     49.83
   (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQQE F 2/IV/4     9.65     2.96     -0.49     -0.69      2.67     28.29     69.04     53.13
   (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQQH F 2/IV/5     9.09     3.34     -0.46     -0.81      7.84     29.19     62.97     47.63
   (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQQK F 2/IV/6     8.45     3.58     -0.27     -1.03     10.76     33.64     55.61     40.87

   2/IV FALL 77        MEAN    S.D.    SKEW    KURT  %SAND  %SILT  %CLAY  %>10PHI
    STATION MEAN       9.01    3.28   -0.34   -0.94    7.2   31.4   61.5   46.5
     STA. ST.DEV.      0.56    0.27    0.15    0.21    4.5    2.4    6.4    5.6
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       (1MG)         MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
 BQRY F 3/IV/1     5.56       4.21       0.65     -1.17      54.71     14.20      31.09      23.03
       (1MG)         MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
 BQSB F 3/IV/2     6.27       4.24       0.37     -1.42      44.59     18.28      37.13      27.18
       (1MG)         MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
 BQSE F 3/IV/3     5.42       4.16       0.74     -1.05      56.19     14.62      29.20      22.24
       (1MG)         MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
 BQSH F 3/IV/4     5.21       4.12       0.79     -0.89      57.13     15.39      27.48      20.67
       (1MG)         MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
 BQSK F 3/IV/5     3.48       3.16       1.94      2.59      79.71      8.13      12.16       8.52
       (1MG)         MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
 BQSN F 3/IV/6     4.14       3.62       1.48      0.66      72.86      9.45      17.69      13.36

      3/IV FALL 77        MEAN    S.D.     SKEW      KURT  %SAND   %SILT   %CLAY  %>10PHI
       STATION MEAN       5.01    3.92     1.00     -0.21   60.9    13.3    25.8    19.2
        STA. ST.DEV.      1.02    0.44     0.59      1.56   12.9     3.8     9.2     6.9


       (1MG)         MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
 BQUC F 4/IV/1     3.17       2.57       2.68      6.37      86.28      5.72       8.00       5.52
       (1MG)         MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
 BQUF F 4/IV/2     3.45       2.78       2.37      4.65      82.99      7.57       9.43       7.23
       (1MG)         MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
 BQUI F 4/IV/3     3.27       2.52       2.61      6.14      86.07      6.06       7.87       5.01
       (1MG)         MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
 BQUL F 4/IV/4     3.37       2.67       2.49      5.28      84.36      6.96       8.68       6.18
       (1MG)         MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
 BQUO F 4/IV/5     3.15       2.44       2.82      7.26      86.92      5.93       7.14       4.92
       (1MG)         MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
 BQUR F 4/IV/6     4.20       3.47       1.47      0.82      73.31      9.22      17.48      11.88

      4/IV FALL 77        MEAN    S.D.     SKEW      KURT  %SAND   %SILT   %CLAY  %>10PHI
       STATION MEAN       3.44    2.74     2.41      5.09   83.3     6.9     9.8     6.8
        STA. ST.DEV.      0.39    0.37     0.48      2.27    5.1     1.3     3.9     2.6
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  (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQVS F 5/IV/1   5.68     4.23      0.57     -1.22     48.19     20.07     31.74     23.53
  (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQVV F 5/IV/2   6.38     4.33      0.26     -1.44     38.74     21.73     39.53     28.38
  (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQVY F 5/IV/3   6.33     4.21      0.34     -1.38     38.06     24.60     36.54     26.95
  (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQWB F 5/IV/4   5.67     4.11      0.63     -1.08     46.98     23.33     29.69     22.91
  (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQWE F 5/IV/5   3.98     3.39      1.54      1.22     67.41     18.36     14.23     10.90
  (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQWH F 5/IV/6   6.04     4.11      0.59     -1.14     42.08     27.93     29.99     27.43

  5/IV FALL 77        MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
   STATION MEAN       5.68    4.06     0.66    -0.84   47.0   22.7   30.3   23.4
    STA. ST.DEV.      0.89    0.34     0.46     1.02   10.7    3.4    8.8    6.5


  (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQXI F 6/IV/1   6.13     4.23      0.47     -1.37     45.37     19.03     35.60     26.85
  (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQXL F 6/IV/2   5.71     4.15      0.57     -1.14     49.62     20.85     29.53     22.87
  (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQXO F 6/IV/3   6.47     4.37      0.32     -1.55     44.06     14.25     41.70     31.30
  (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQXR F 6/IV/4   5.70     4.21      0.59     -1.21     49.55     19.06     31.39     23.57
  (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQXU F 6/IV/5   5.91     4.18      0.50     -1.28     46.39     20.97     32.64     24.00
  (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BQXX F 6/IV/6   5.70     4.28      0.59     -1.30     54.29     12.30     33.41     23.98

  6/IV FALL 77        MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
   STATION MEAN       5.94    4.24     0.51    -1.31   48.2   17.7   34.0   25.4
    STA. ST.DEV.      0.31    0.08     0.10     0.14    3.7    3.6    4.3    3.2
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     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BQYY F 7/IV/1     9.30       2.94     -0.18     -1.13       1.87      35.82      62.31      46.24
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BQZB F 7/IV/2     9.76       2.87     -0.52     -0.76       1.82      23.26      74.91      52.79
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BQZE F 7/IV/3     9.17       2.84      0.01     -1.25       0.82      40.61      58.58      42.48
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BQZH F 7/IV/4     9.73       2.79     -0.40     -0.82       1.50      25.48      73.01      51.45
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BQZK F 7/IV/5     9.65       2.91     -0.44     -0.89       1.55      27.71      70.74      51.97
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BQZN F 7/IV/6     9.54       2.87     -0.21     -1.25       0.75      34.93      64.32      50.23

      7/IV FALL 77          MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN         9.52    2.87    -0.29    -1.02    1.4   31.3   67.3   49.2
        STA. ST.DEV.        0.24    0.05     0.20     0.22    0.5    6.8    6.5    4.0


     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPKY F HR/2/1     8.43       3.14     -0.13     -1.06      12.15      30.12      57.73      30.63
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPLB F HR/2/2     9.13       3.22     -0.31     -1.12       8.60      29.36      62.04      47.25
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPLE F HR/2/3     9.13       3.22     -0.32     -1.11       9.51      28.71      61.78      46.98
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPLH F HR/2/4     9.06       3.22     -0.26     -1.21       7.37      30.77      61.86      45.83
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPLK F HR/2/5     8.73       3.30     -0.09     -1.35       6.57      36.57      56.86      42.56
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BPLN F HR/2/6     8.51       3.46     -0.09     -1.38      13.61      32.26      54.13      41.18

      HR/2  FALL 77         MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN         8.83    3.26    -0.20    -1.21    9.6   31.3   59.1   42.4
        STA. ST.DEV.        0.32    0.11     0.11     0.13    2.8    2.9    3.3    6.3
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         (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPMB F HR/4/1      9.72       2.84      -0.50    -0.45       3.72       26.92      69.36      52.09
         (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPME F HR/4/2     10.08       2.56      -0.34    -0.99       0.20       25.68      74.12      56.31
         (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPMH F HR/4/3     10.03       2.62      -0.34    -1.02       0.56       27.44      72.00      56.86
         (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPMK F HR/4/4      9.86       2.74      -0.41    -0.89       1.05       25.65      73.29      54.13
         (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPMN F HR/4/5      9.91       2.71      -0.40    -0.89       0.67       27.77      71.56      54.69
         (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPMQ F HR/4/6      9.99       2.60      -0.35    -0.92       0.56       26.76      72.68      54.35

         HR/4  FALL 77        MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
          STATION MEAN        9.93    2.68    -0.39    -0.86    1.1   26.7   72.2   54.7
           STA. ST.DEV.       0.13    0.11     0.06     0.21    1.3    0.9    1.7    1.7


         (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPNE F SB/2/1     10.10       2.54      -0.32    -0.96       0.10       22.80      77.10      57.53
         (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPNH F SB/2/2     10.13       2.59      -0.45    -0.82       0.12       23.63      76.25      57.96
         (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPNK F SB/2/3     10.13       2.61      -0.51    -0.64       0.09       24.72      75.19      58.18
         (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPNN F SB/2/4     10.18       2.54      -0.45    -0.77       0.10       22.09      77.81      58.36
         (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPNQ F SB/2/5     10.10       2.51      -0.33    -0.97       0.14       25.50      74.36      56.20
         (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BPNT F SB/2/6     10.02       2.63      -0.43    -0.79       0.13       24.93      74.93      55.69

         SB/2  FALL 77        MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
          STATION MEAN       10.11    2.57    -0.41    -0.82    0.1   23.9   75.9   57.3
           STA. ST.DEV.       0.05    0.05     0.07     0.12    0.0    1.3    1.3    1.1
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      (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
 BPOH F SB/4/1     8.45       3.47     -0.08     -1.35      11.92     33.13     54.95     40.55
      (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
 BPOK F SB/4/2     8.05       3.77     -0.18     -0.90      13.85     37.80     48.34     39.45
      (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
 BPON F SB/4/3     7.71       3.53      0.27     -1.42      21.39     34.09     44.52     33.04
      (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
 BPOQ F SB/4/4     8.06       3.55      0.00     -1.21      14.72     36.46     48.82     36.62
      (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
 BPOT F SB/4/5     8.88       3.12     -0.06     -1.26       5.50     37.97     56.53     42.12
      (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
 BPOW F SB/4/6     7.78       3.65      0.09     -1.27      18.02     36.02     45.96     34.72

      SB/4  FALL 77        MEAN    S.D.     SKEW      KURT  %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN        8.15    3.51     0.01     -1.24   14.2   35.9   49.9   37.8
        STA. ST.DEV.       0.44    0.22     0.16      0.18    5.4    2.0    4.8    3.5
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     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSGY F 1/I/B        5.49     3.28      1.28      0.27      48.81     31.10     20.09     16.48
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSGZ F 2/I/B        8.80     3.18     -0.11     -1.20      7.72      35.69     56.59     41.17
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHK F 3/I/M        9.42     3.03     -0.38     -0.93      4.91      29.08     66.01     49.19
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHA F 3/I/B        9.30     3.07     -0.33     -0.97      6.21      29.73     64.06     47.76
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHB F 1/II/B       8.64     3.30     -0.05     -1.34      9.10      36.53     54.37     41.13
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHC F 2/II/B       7.84     3.39      0.32     -1.36      13.66     42.66     43.68     33.32
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHD F 3/II/B       9.26     2.96     -0.16     -1.20      2.51      33.03     64.46     46.16
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHL F 1/II/M       5.12     2.59      2.16      3.39      46.61     41.26     12.13     10.54
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHM F 2/II/M       7.78     3.39      0.34     -1.34      15.21     41.72     43.07     33.05
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHN F 3/II/M       9.31     3.03     -0.23     -1.21      1.86      34.45     63.69     48.33
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHE F 1/III/B      7.19     3.29      0.68     -1.03      14.12     51.53     34.34     26.78
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHF F 2/III/B      8.52     3.14      0.15     -1.36      3.79      44.92     51.28     37.63
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHG F 3/III/B      8.69     3.23     -0.06     -1.21      4.29      40.75     54.96     40.94
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHO F 2/III/M      9.54     2.84     -0.22     -1.17      0.81      34.34     64.85     49.23
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHH F 1/IV/B       5.01     4.03      0.90     -0.68      58.08     17.35     24.57     19.08
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHI F 2/IV/B       8.13     3.56     -0.05     -1.21      11.88     37.63     50.49     37.30
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHJ F 3/IV/B       4.58     4.00      1.14     -0.29      66.27     11.99     21.73     18.59
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BSHP F 1/IV/M       4.87     4.04      0.95     -0.59      59.62     16.63     23.75     18.90
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     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BGVC S 1/I/1       5.94      3.69      0.82    -0.81     47.07     24.93     27.99     21.09
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BGVF S 1/I/2       5.75      3.67      0.90    -0.67     50.09     23.52     26.39     20.21
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BGVI S 1/I/3       5.92      3.69      0.84    -0.79     47.61     24.25     28.14     21.29
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BGVL S 1/I/4       6.16      3.80      0.68    -1.06     45.67     23.34     30.98     23.16
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BGVO S 1/I/5       5.26      3.46      1.20    -0.00     57.26     21.38     21.36     16.14
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BGVR S 1/I/6       5.19      3.38      1.29     0.24     58.59     20.95     20.46     15.35

   SPRING 1/I              MEAN   S.D.    SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
     STATION MEAN          5.70   3.62    0.95    -0.52   51.1   23.1   25.9   19.5
      STA. ST.DEV.         0.40   0.16    0.24     0.51    5.5    1.6    4.1    3.1


     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BGXB S 2/I/1       6.27      3.42      0.87    -0.66     39.60     32.90     27.50     20.83
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BGXE S 2/I/2       7.85      3.43      0.20    -1.33     17.22     36.97     45.81     32.12
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BGXH S 2/I/3       6.14      3.42      0.90    -0.63     43.46     29.09     27.45     19.42
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BGXK S 2/I/4       7.13      3.62      0.37    -1.29     31.09     29.54     39.37     27.34
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BXGN S 2/I/5       7.71      3.50      0.19    -1.33     21.34     34.17     44.50     31.16
     (1MG)          MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BGXQ S 2/I/6       7.35      3.50      0.39    -1.29     25.43     33.97     40.60     28.57

   SPRING 2/I              MEAN   S.D.    SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
     STATION MEAN          7.07   3.48    0.49    -1.09   29.7   32.8   37.5   26.6
      STA. ST.DEV.         0.72   0.08    0.32     0.34   10.3    3.0    8.1    5.3
      (1MG)          MEAN      ST.DEV.    SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BGZG S 3/I/1       9.50        2.97       -0.44      -0.77       4.92       25.63       69.45       48.97
      (1MG)          MEAN      ST.DEV.    SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BGZJ S 3/I/2       9.48        3.03       -0.41      -0.90       4.57       27.96       67.46       50.83
      (1MG)          MEAN      ST.DEV.    SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BGZM S 3/I/3       9.40        3.11       -0.43      -0.85       5.93       28.31       65.77       50.64
      (1MG)          MEAN      ST.DEV.    SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BGZP S 3/I/4       9.08        2.97       -0.25      -0.94       5.68       29.85       64.47       39.68
      (1MG)          MEAN      ST.DEV.    SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BGZS S 3/I/5       9.31        3.15       -0.44      -0.81       7.64       27.40       64.96       48.91
      (1MG)          MEAN      ST.DEV.    SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BGZV S 3/I/6       9.56        2.95       -0.38      -0.91       4.16       28.31       67.53       51.10

    SPRING 3/I             MEAN    S.D.      SKEW      KURT   %SAND   %SILT   %CLAY   %>10PHI
      STATION MEAN         9.39    3.03     -0.39     -0.86     5.5    27.9    66.6    48.4
        STA. ST.DEV.       0.18    0.08      0.07      0.06     1.2     1.4     1.9     4.4


      (1MG)          MEAN      ST.DEV.    SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BHBD S 4/I/1       6.67        4.14        0.22      -1.44      41.50       16.23       42.27       28.22
      (1MG)          MEAN      ST.DEV.    SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BHBG S 4/I/2       5.30        3.97        0.82      -0.78      56.02       17.24       26.75       19.94
      (1MG)          MEAN      ST.DEV.    SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BHBJ S 4/I/3       5.41        3.90        0.79      -0.74      53.61       20.94       25.45       19.73
      (1MG)          MEAN      ST.DEV.    SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BHBM S 4/I/4       5.15        3.98        0.83      -0.71      59.19       14.46       26.35       18.74
      (1MG)          MEAN      ST.DEV.    SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BHBP S 4/I/5       4.08        3.44        1.51       1.07      73.80       10.41       15.80       11.74
      (1MG)          MEAN      ST.DEV.    SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BHBS S 4/I/6       3.74        3.11        1.90       2.56      76.32       11.65       12.03        9.17

    SPRING 4/I             MEAN    S.D.      SKEW      KURT   %SAND   %SILT   %CLAY   %>10PHI
      STATION MEAN         5.06    3.76      1.01     -0.01    60.1    15.2    24.8    17.9
        STA. ST.DEV.       1.05    0.40      0.60      1.51    13.1     3.9    10.5     6.8
    (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT    % CLAY    % >10PHI
BHDC S 5/I/1      9.72      2.80     -0.40    -0.81       2.21     27.11     70.68     51.43
    (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT    % CLAY    % >10PHI
BHDF S 5/I/2     9.10      3.27     -0.35    -1.06      10.42     27.46     62.12     47.48
    (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT    % CLAY    % >10PHI
BHDI S 5/I/3      9.40      3.06     -0.41    -0.90       6.13     27.20     66.67     48.85
    (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT    % CLAY    % >10PHI
BHDL S 5/I/4      9.96      2.69     -0.39    -1.01       0.73     27.11     72.16     55.61
    (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT    % CLAY    % >10PHI
BHDO S 5/I/5    10.13      2.52     -0.49    -0.48       1.44     22.38     76.18     55.67
    (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT    % CLAY    % >10PHI
BHDR S 5/I/6      8.17      3.38      0.05    -1.27      13.23     36.71     50.06     34.96

   SPRING 5/I          MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
     STATION MEAN      9.41    2.95    -0.33    -0.92    5.7   28.0   66.3   49.0
       STA. ST.DEV.    0.72    0.34     0.19     0.27    5.2    4.7    9.3    7.7


    (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT    % CLAY    % >10PHI
BHFA S 6/I/1      7.33      3.57      0.36    -1.29      24.32     35.90     39.78     29.68
    (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT    % CLAY    % >10PHI
BHFD S 6/I/2      7.43      3.58      0.29    -1.34      23.32     33.82     42.87     29.72
    (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT    % CLAY    % >10PHI
BHFG S 6/I/3      7.57      3.48      0.28    -1.30      20.44     36.41     43.15     30.08
    (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT    % CLAY    % >10PHI
BHFJ S 6/I/4      7.65      3.49      0.24    -1.30      19.53     36.69     43.78     31.21
    (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT    % CLAY    % >10PHI
BHFM S 6/I/5      7.72      3.50      0.24    -1.34      17.46     38.86     43.68     32.48
    (1MG)           MEAN    ST.DEV.  SKEWNESS  KURTOSIS     % SAND    % SILT    % CLAY    % >10PHI
BHFP S 6/I/6      7.18      3.59      0.36    -1.27      29.06     30.74     40.19     27.54

    6/1  SPRING 77     MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
     STATION MEAN      7.48    3.53     0.30    -1.31   22.4   35.4   42.2   30.1
       STA. ST.DEV.    0.21    0.05     0.05     0.03    4.1    2.8    1.8    1.7
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHGT S 1/II/1     9.20      3.23     -0.43     -0.85        8.01     26.46      65.53      47.98
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHGW S 1/II/2     7.40      3.83      0.18     -1.41       27.92     28.58      43.50      33.08
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHGZ S 1/II/3     8.88      3.48     -0.32     -1.14       11.76     29.55      58.70      47.67
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHHC S 1/II/4     7.67      3.80      0.11     -1.43       24.55     29.38      46.07      36.33
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHHF S 2/II/5     8.80      3.32     -0.20     -1.19        7.76     34.43      57.81      43.38
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHHI S 1/II/6     7.75      3.76      0.07     -1.43       23.87     27.09      49.03      35.45

    SPRING 1/II          MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN       8.28    3.57    -0.10    -1.24   17.3   29.2   53.4   40.6
       STA. ST.DEV.      0.76    0.26     0.25     0.23    9.1    2.8    8.5    6.5


     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHJK S 2/II/1     7.32      3.52      0.43     -1.30       25.31     34.34      40.35      29.52
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHJN S 2/II/2     7.64      3.41      0.38     -1.31       13.73     45.01      41.27      31.33
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHJQ S 2/II/3     7.53      3.51      0.34     -1.34       21.16     36.01      42.83      31.12
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHJT S 2/II/4     7.40      3.68      0.25     -1.31       24.27     34.06      41.68      31.40
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHJW S 2/II/5     7.46      3.73      0.22     -1.38       25.43     31.61      42.96      33.04
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHJZ S 2/II/6     7.45      3.71      0.21     -1.34       24.05     33.52      42.42      31.94

    SPRING 2/II          MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN       7.47    3.59     0.31    -1.33   22.3   35.8   41.9   31.4
       STA. ST.DEV.      0.11    0.13     0.09     0.03    4.5    4.7    1.0    1.1
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHMB S 3/II/1      9.21       3.03     -0.37     -0.63       3.75     31.19      65.06      44.15
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHME S 3/II/2      9.21       2.97     -0.25     -0.73       2.87     31.30      65.83      45.07
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHMH S 3/II/3      9.29       2.91     -0.24     -0.98       3.08     31.65      65.27      44.43
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHMK S 3/II/4      9.17       2.98     -0.19     -1.10       2.32     34.06      63.62      43.46
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHMN S 3/II/5      9.32       2.96     -0.39     -0.57       3.49     31.31      65.20      45.16
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHMQ S 3/II/6      9.35       2.88     -0.21     -1.10       2.36     30.04      67.60      45.40

    SPRING 3/II          MEAN    S.D.     SKEW     KURT   %SAND   %SILT   %CLAY  %>10PHI
      STATION MEAN       9.26    2.96    -0.27    -0.85     3.0    31.6    65.4    44.6
       STA. ST.DEV.      0.07    0.05     0.08     0.24     0.6     1.3     1.3     0.7


      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHOP S 4/II/1      7.75       3.38      0.27     -1.25      15.58     42.68      41.74      31.24
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHOS S 4/II/2      7.19       3.60      0.46     -1.27      28.30     35.55      36.07      30.07
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHOV S 4/II/3      6.23       3.31      0.97     -0.45      37.20     38.00      24.80      19.81
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHOY S 4/II/4      6.45       3.31      0.91     -0.61      32.69     39.55      27.75      21.08
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHPB S 4/II/5      7.15       3.42      0.53     -1.12      23.38     41.89      34.74      26.66
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT    % CLAY     % >10PHI
BHPE S 4/II/6      8.44       3.35      0.06     -1.39       9.90     41.35      48.75      40.52

    SPRING 4/II          MEAN    S.D.     SKEW     KURT   %SAND   %SILT   %CLAY  %>10PHI
      STATION MEAN       7.20    3.40     0.53    -1.02    24.5    39.8    35.6    28.2
       STA. ST.DEV.      0.82    0.11     0.36     0.39    10.4     2.7     8.8     7.6
      (1MG)        MEAN    ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BHQT S 5/II/1      8.76      3.34     -0.15     -1.32      10.41     30.96      58.64      43.66
      (1MG)        MEAN    ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BHQW S 5/II/2      8.49      3.38     -0.01     -1.42      10.99     35.92      53.09      40.31
      (1MG)        MEAN    ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BHQZ S 5/II/3      8.26      3.48      0.08     -1.47      12.99     36.84      50.16      39.65
      (1MG)        MEAN    ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BHRC S 5/II/4      7.85      3.56      0.22     -1.48      17.65     34.57      47.78      35.80
      (1MG)        MEAN    ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BHRF S 5/II/5      6.52      3.43      0.85     -0.82      31.75     37.89      30.36      23.16
      (1MG)        MEAN    ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BHRI S 5/II/6      8.45      3.42     -0.05     -1.39      13.36     28.53      58.11      39.64

    SPRING 5/II          MEAN   S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN       8.06   3.44     0.16    -1.32   16.2   34.1   49.7   37.0
       STA. ST.DEV.      0.81   0.08     0.36     0.25   8.0     3.6   10.4    7.2


      (1MG)        MEAN    ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BHSX S 6/II/1      8.29      3.53     -0.04     -1.40      18.37     29.28      52.35      39.30
      (1MG)        MEAN    ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BHTA S 6/II/2      9.00      3.22     -0.18     -1.27       6.93     34.34      58.73      46.11
      (1MG)        MEAN    ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BHTD S 6/II/3      8.01      3.53      0.12     -1.44      17.51     34.09      48.40      36.38
      (1MG)        MEAN    ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
GHTG S 6/II/4      8.99      3.23     -0.20     -1.25       7.14     33.75      59.11      45.81
      (1MG)        MEAN    ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BHTJ S 6/II/5      9.05      3.17     -0.19     -1.26       5.58     33.44      60.99      45.20
      (1MG)        MEAN    ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BHTM S 6/II/6      9.29      3.08     -0.30     -1.11       5.14     29.92      64.94      48.08

    SPRING 6/II          MEAN   S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN       8.77   3.29    -0.13    -1.29   10.1   32.5   57.4   43.5
       STA. ST.DEV.      0.50   0.19     0.15     0.12   6.1     2.3    6.0    4.6
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHUX S 1/III/1    8.04       3.40       0.23      -1.42        9.43      44.29      46.28      36.08
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHVA S 1/III/2    8.42       3.25       0.11      -1.38        6.33      42.51      51.15      37.64
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHVD S 1/III/3    9.25       3.05      -0.18      -1.28        1.18      37.06      61.77      47.85
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHVG S 1/III/4    7.11       3.34       0.65      -1.07       16.37      49.46      34.18      25.63
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHVJ S 1/III/5    7.94       3.52       0.10      -1.21       11.65      41.93      46.42      35.57
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHVM S 1/III/6    7.99       3.47       0.21      -1.43       14.35      38.96      46.70      36.39

    SPRING 1/III         MEAN    S.D.     SKEW      KURT   %SAND   %SILT   %CLAY   %>10PHI
      STATION MEAN       8.12    3.34     0.19     -1.30     9.9    42.4    47.7    36.5
       STA. ST.DEV.      0.70    0.17     0.27      0.14     5.5     4.3     8.9     7.1
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      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHWX S 2/III/1    8.62       2.99       0.25      -1.35        0.75      49.02      50.22      37.66
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHXA S 2/III/2    9.14       2.95      -0.07      -1.30        0.72      36.47      62.80      43.59
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHXD S 2/III/3    8.86       3.09       0.00      -1.37        1.86      42.11      56.03      41.75
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHXG S 2/III/4    8.98       3.13      -0.09      -1.34        3.18      39.25      57.57      44.27
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHXJ S 2/III/5    8.69       3.04       0.19      -1.41        0.47      48.05      51.48      39.75
      (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHXM S 2/III/6    7.96       3.39       0.26      -1.39       11.17      43.39      45.44      34.66

    SPRING 2/III         MEAN    S.D.     SKEW      KURT   %SAND   %SILT   %CLAY   %>10PHI
      STATION MEAN       8.71    3.10     0.09     -1.36     3.0    43.1    53.9    40.3
       STA. ST.DEV.      0.41    0.16     0.16      0.04     4.1     4.9     6.1     3.7
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        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHYX S 3/III/1     8.61      3.23      0.08      -1.44       2.38      44.96      52.66      41.05
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHZA S 3/III/2     8.45      3.21      0.13      -1.39       4.14      44.71      51.15      37.64
        (1MG)           MEAN.    ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHZD S 3/III/3     9.17      3.09     -0.16      -1.30       1.14      38.03      60.83      47.12
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHZG S 3/III/4     8.29      3.19      0.25      -1.40       1.66      51.24      47.10      35.33
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHZJ S 3/III/5     9.05      3.04     -0.01      -1.41       0.32      41.18      58.49      44.82
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BHZM S 3/III/6     9.83      2.74     -0.31      -1.11       0.33      28.96      70.71      54.45

     SPRING 3/III           MEAN   S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN         8.90   3.08    -0.00    -1.34    1.7   41.5   56.8   43.4
        STA. ST.DEV.        0.57   0.18     0.21     0.12    1.4    7.6    8.4    7.0
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        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIAX S 4/III/1     4.35      3.16      1.78       1.82      75.29      10.13      14.58      11.66
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIBA S 4/III/2     3.70      1.97      3.59      12.59      87.22       7.46       5.32       4.22
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIBD S 4/III/3     3.67      2.42      2.66       6.62      82.46      10.12       7.42       5.72
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIBG S 4/III/4     3.76      2.60      2.41       5.24      81.65       9.55       8.80       6.72
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIBJ S 4/III/5     3.70      2.48      2.65       6.28      82.88       8.97       8.15       6.11
        (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIBM S 4/III/6     3.97      2.30      2.71       7.33      83.70       8.69       7.61       5.76

     SPRING 4/III           MEAN   S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN         3.86   2.49     2.63     6.65   82.2    9.2    8.6    6.7
        STA. ST.DEV.        0.27   0.39     0.58     3.50    3.9    1.0    3.1    2.6
       (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BICP S 5/III/1    9.12         3.07      -0.12     -1.27        4.55       35.36      60.09      45.82
       (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BICS S 5/III/2    8.90         3.18      -0.14     -1.22        6.79       34.40      58.80      42.95
       (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BICV S 5/III/3    8.60         3.32      -0.02     -1.41        8.91       36.09      55.00      41.44
       (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BICY S 5/III/4    9.25         3.07      -0.28     -1.08        4.93       30.51      64.56      47.04
       (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIDB S 5/III/5    9.61         2.96      -0.38     -1.01        3.28       28.84      67.88      53.07
       (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIDE S 5/III/6    9.18         3.16      -0.31     -1.07        5.80       30.75      63.45      47.21

    SPRING 5/III          MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN        9.11    3.13    -0.21    -1.18    5.7   32.7   61.6   46.3
       STA. ST.DEV.       0.34    0.12     0.14     0.15    2.0    3.0    4.6    4.1
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       (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIEH S 6/III/1    9.36         2.93      -0.29     -0.98        2.92       30.08      67.00      45.77
       (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIEK S 6/III/2    9.75         2.84      -0.42     -0.91        1.88       26.07      72.05      53.17
       (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIEN S 6/III/3    9.71         2.93      -0.58     -0.31        2.87       25.74      71.38      52.99
       (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIEQ S 6/III/4    9.77         2.88      -0.58     -0.32        2.17       25.84      71.99      53.44
       (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIET S 6/III/5    9.52         2.80      -0.31     -0.91        1.53       29.71      68.76      46.51
       (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIEW S 6/III/6    9.52         2.98      -0.30     -1.18        1.95       33.67      64.37      51.80

    SPRING 6/III          MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN        9.60    2.89    -0.41    -0.77    2.2   28.5   69.3   50.6
       STA. ST.DEV.       0.16    0.07     0.14     0.36    0.6    3.2    3.1    3.5
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     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIFX S 1/IV/1     5.77       4.33       0.47     -1.34      51.88       11.34       36.77       23.78
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIGA S 1/IV/2     4.40       3.79       1.24      0.04      68.13       11.21       20.65       14.85
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIGD S 1/IV/3     4.41       3.78       1.25      0.03      67.98       10.62       21.40       14.51
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIGG S 1/IV/4     6.31       4.18       0.26     -1.37      40.74       21.09       38.17       24.49
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIGJ S 1/IV/5     4.17       3.68       1.32      0.36      69.21       12.24       18.55       12.80
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIGM S 1/IV/6     4.65       3.86       1.08     -0.33      64.18       12.90       22.92       15.56

   SPRING 1/IV           MEAN    S.D.     SKEW      KURT   %SAND   %SILT   %CLAY   %>10PHI
     STATION MEAN        4.95    3.94     0.94     -0.44    60.4    13.2    26.4    17.7
      STA. ST.DEV.       0.88    0.26     0.45      0.75    11.6     3.9     8.7     5.1


     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIHX S 2/IV/1     9.31       3.07      -0.40     -0.78       3.45       29.16       67.38       47.46
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIIA S 2/IV/2     9.21       3.35      -0.44     -0.89       5.36       32.52       62.11       51.90
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIID S 2/IV/3     8.35       3.80      -0.32     -1.14      16.24       28.19       55.57       42.43
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIIG S 2/IV/4     8.91       3.43      -0.40     -0.94       8.87       30.78       60.35       46.16
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIIJ S 2/IV/5     9.27       3.10      -0.33     -1.03       3.33       31.62       65.05       47.52
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIIM S 2/IV/6     8.47       3.61      -0.33     -0.93      11.50       31.86       56.64       41.23

   SPRING 2/IV           MEAN    S.D.     SKEW      KURT   %SAND   %SILT   %CLAY   %>10PHI
     STATION MEAN        8.92    3.39    -0.37     -0.95     8.1    30.7    61.2    46.1
      STA. ST.DEV.       0.42    0.28     0.05      0.12     5.1     1.7     4.6     3.9
     (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIKA S 3/IV/1      5.68        4.45       0.49     -1.29      52.67      14.04      33.29      26.11
     (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIKD S 3/IV/2      5.91        4.38       0.44     -1.36      49.98      15.22      34.80      26.45
     (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIKG S 3/IV/3      5.57        4.29       0.66     -1.16      55.04      13.50      31.38      25.23
     (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIKJ S 3/IV/4      5.71        4.65       0.22     -1.08      50.68      14.56      34.75      26.35
     (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIKM S 3/IV/5      5.17        4.20       0.74     -0.92      57.39      14.84      27.77      20.77
     (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIKP S 3/IV/6      5.78        4.30       0.52     -1.28      49.64      18.02      32.33      24.75

   SPRING 3/IV            MEAN    S.D.      SKEW     KURT   %SAND   %SILT   %CLAY   %>10PHI
     STATION MEAN         5.64    4.38      0.51    -1.18    52.6    15.0    32.4    24.9
      STA. ST.DEV.        0.25    0.16      0.18     0.16     3.1     1.6     2.6     2.2


     (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BILY S 4/IV/1      3.13        2.33       2.90      8.13      89.66       3.88       6.46       4.32
     (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIMB S 4/IV/2      3.79        3.06       1.96      2.58      79.88       6.90      13.22       8.75
     (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIME S 4/IV/3      4.02        3.23       1.67      1.59      74.43      11.26      14.31       9.84
     (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIMH S 4/IV/4      3.61        3.05       2.02      2.94      81.86       6.35      11.79       8.51
     (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIMK S 4/IV/5      3.73        3.08       1.87      2.53      78.75       9.00      12.24       8.59
     (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIMN S 4/IV/6      4.43        3.62       1.33      0.30      70.58       9.30      20.11      13.72

   SPRING 4/IV            MEAN    S.D.      SKEW     KURT   %SAND   %SILT   %CLAY   %>10PHI
     STATION MEAN         3.78    3.06      1.96     3.01    79.2     7.8    13.0     9.0
      STA. ST.DEV.        0.43    0.42      0.52     2.68     6.5     2.6     4.4     3.0
      (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BINP S 5/IV/1      5.29       4.14       0.77     -0.97     54.77      17.00      28.23      21.16
      (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BINS S 5/IV/2      6.18       4.23       0.42     -1.35     42.20      22.22      35.58      27.21
      (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BINV S 5/IV/3      5.51       3.98       0.73     -0.92     49.01      22.57      28.41      20.42
      (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BINY S 5/IV/4      5.27       3.86       0.85     -0.63     48.75      26.68      24.57      18.60
      (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIOB S 5/IV/5      5.03       3.93       0.91     -0.60     55.02      21.16      23.82      17.97
      (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIOE S 5/IV/6      5.89       4.05       0.57     -1.10     42.65      26.32      31.03      23.38

    SPRING 5/IV             MEAN    S.D.      SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN          5.53    4.03      0.71    -0.93   48.7   22.7   28.6   21.5
        STA. ST.DEV.        0.43    0.14      0.18     0.28    5.6    3.6    4.3    3.4


      (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIPD S 6/IV/1      6.15       4.31       0.42     -1.44     48.38      14.46      37.16      27.78
      (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIPG S 6/IV/2      5.92       4.28       0.50     -1.34     49.32      16.58      34.10      25.71
      (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIPJ S 6/IV/3      5.61       4.20       0.64     -1.17     51.86      17.08      31.05      23.42
      (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIPM S 6/IV/4      5.17       4.19       0.76     -0.96     57.60      12.83      29.58      20.71
      (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIPP S 6/IV/5      4.60       3.94       1.15     -0.28     67.60       9.95      22.44      17.25
      (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BIPS S 6/IV/6      5.76       4.45       0.47     -1.35     51.85      14.33      33.82      26.34

    SPRING 6/IV             MEAN    S.D.      SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN          5.53    4.23      0.66    -1.09   54.4   14.2   31.4   23.5
        STA. ST.DEV.        0.57    0.17      0.27     0.43    7.2    2.6    5.1    4.0
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BIQU S 7/IV/1       9.75        2.72      -0.33     -0.91        1.13       28.05       70.82       50.73
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BIQX S 7/IV/2       9.82        2.76      -0.37     -0.92        1.26       27.58       71.16       53.94
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BIRA S 7/IV/3       9.87        2.69      -0.34     -0.96        0.76       27.11       72.13       53.50
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BIRD S 7/IV/4       9.64        2.84      -0.36     -0.97        1.16       30.04       68.81       50.38
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BIRG S 7/IV/5       9.83        2.61      -0.24     -1.04        0.50       25.44       74.06       51.08
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BIRJ S 7/IV/6       9.78        2.71      -0.34     -0.90        0.68       26.62       72.70       51.52

    SPRING 7/IV           MEAN    S.D.     SKEW     KURT   %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN        9.78    2.72    -0.33    -0.95    0.9   27.5   71.6   51.9
       STA. ST.DEV.       0.08    0.08     0.05     0.05    0.3    1.5    1.8    1.5


        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BIUR S HR/2/1       9.37        3.04      -0.32     -1.06        5.04       29.55       65.41       48.97
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BIUN S HR/2/2       9.07        3.32      -0.39     -0.96        9.37       28.34       62.29       47.26
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BIUX S HR/2/3       9.32        3.13      -0.37     -1.00        6.46       27.24       66.30       49.18
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BIVA S HR/2/4       8.45        3.54      -0.17     -1.23       14.53       31.15       54.32       41.26
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BIVD S HR/2/5       9.07        3.31      -0.47     -0.62        8.15       29.76       62.09       46.62
        (1MG)         MEAN     ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BIVG S HR/2/6       9.08        3.16      -0.25     -1.11        6.42       31.30       62.28       45.58

    SPRING HR 2           MEAN    S.D.     SKEW     KURT   %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN        9.06    3.25    -0.33    -1.00    8.3   29.6   62.1   46.5
       STA. ST.DEV.       0.33    0.18     0.10     0.21    3.4    1.6    4.2    2.9
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BIVU S HR/4/1       4.22       4.83       0.56     -1.15      56.35      16.67      26.98      18.08
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BIVX S HR/4/2       4.34       5.04       0.45     -1.25      52.78      19.52      27.70      21.07
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BIWA S HR/4/3       3.93       4.98       0.61     -1.15      58.01      15.85      26.14      18.22
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BIWD S HR/4/4       2.70       4.41       1.16      0.00      72.62      10.33      17.06      11.69
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BIWG S HR/4/5       3.38       4.62       0.94     -0.55      66.36      13.91      19.74      15.29
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BIWJ S HR/4/6       2.90       4.34       1.17      0.03      72.34      10.55      17.11      12.23

   SPRING HR 4          MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
     STATION MEAN       3.58    4.70     0.82    -0.68   63.1   14.5   22.5   16.1
      STA. ST.DEV.      0.69    0.29     0.32     0.59    8.5    3.6    5.0    3.7
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       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BISL S SB/2/1      10.34       2.75      -0.79     -0.37       1.63      22.54      75.83      66.03
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BISO S SB/2/2       9.21       3.11      -0.41     -0.85       9.51      24.79      65.71      44.85
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BISR S SB/2/3       7.18       3.56       0.44     -1.29      26.69      34.03      39.28      27.97
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BISU S SB/2/4       9.96       2.63      -0.44     -0.66       1.59      23.02      75.38      53.69
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BISX S SB/2/5       8.44       3.39      -0.13     -1.27      17.56      24.22      58.22      37.23
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BITA S SB/2/6       9.65       2.75      -0.37     -0.71       3.95      24.80      71.25      48.16

   SPRING SB 2          MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
     STATION MEAN       9.13    3.03    -0.28    -0.86   10.2   25.6   64.3   46.3
      STA. ST.DEV.      1.16    0.38     0.41     0.36   10.1    4.3   13.9   13.2
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    (IMG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BITO S SB/4/1     8.01       3.72     -0.07    -1.20       18.49       31.68       49.82       38.73
    (IMG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BITR S SB/4/2     6.79       3.88      0.41    -1.27       35.31       29.17       35.52       29.31
    (IMG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BITU S SB/4/3     6.68       4.20      0.09    -1.14       32.49       28.08       39.42       28.91
    (IMG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BITX S SB/4/4     6.22       4.37      0.21    -1.23       38.59       26.08       35.33       27.37
    (IMG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIUA S SB/4/5     8.04       3.73     -0.13    -1.10       13.97       36.45       49.57       38.40
    (IMG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BIUD S SB/4/6     6.73       3.72      0.55    -1.19       37.75       27.40       34.84       27.00

   SPRING SB 4           MEAN    S.D.     SKEW     KURT  %SAND   %SILT  %CLAY  %>10PHI
     STATION MEAN        7.08    3.94     0.18    -1.19   29.4    29.8   40.8    31.6
      STA. ST.DEV.       0.76    0.28     0.27     0.06   10.5     3.8    7.1     5.5
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        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMON S 1/I B         5.45       3.62      0.97     -0.54      58.66      14.93      26.41      16.69
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMOO S 2/I B         5.92       3.71      0.88     -0.86      55.05      15.24      29.71      21.33
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMOP S 3/I B         8.81       2.99     -0.18     -0.89       7.05      33.62      59.33      35.26
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMOQ S 1/II B        7.34       3.47      0.46     -1.23      19.99      41.47      38.54      29.68
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMOR S 2/II B        7.26       3.60      0.40     -1.34      30.89      29.16      39.95      29.73
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMOS S 3/II B        9.54       2.88     -0.33     -0.94       2.69      29.67      67.64      49.20
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMOT S 1/III B       8.17       3.28      0.08     -1.30      13.01      34.90      52.09      32.24
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMOU S 2/III B       7.77       2.95      0.48     -0.94       8.05      51.65      40.29      24.67
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMOV S 3/III B       9.27       2.76     -0.08     -1.11       1.20      35.35      63.45      41.64
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMOW S 1/IV B        4.24       3.24      1.25      0.56      61.94      23.69      14.37       7.81
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMOX S 2/IV B        6.15       4.30      0.32     -1.41      43.53      20.57      35.90      25.53
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMOY S 3/IV B        4.32       3.58      1.33      0.32      68.78      11.46      19.75      12.06
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMOZ S 3/I  M        9.44       3.10     -0.47     -0.81       6.12      26.46      67.42      50.40
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMPC S 1/II M        7.25       3.23      0.50     -1.02      20.29      41.36      38.35      23.31
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMPD S 2/II M        7.49       3.47      0.33     -1.33      24.14      32.64      43.22      28.97
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMPE S 3/II M        9.32       2.81     -0.21     -0.95       2.75      29.52      67.73      42.34
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMPA S 2/III M       8.72       3.26     -0.02     -1.37       7.77      38.75      53.49      42.79
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BMPB S 1/IV M        4.26       3.99      1.10     -0.18      65.81      13.29      20.90      15.36
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    (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BBDD W 1 1 1      6.54       3.71      0.60     -1.13      38.07      28.85      33.08      24.97
    (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BBDG W 1 1 2      6.14       3.76      0.68     -1.03      46.98      21.18      31.84      22.40
    (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BBDJ W 1 1 3      6.38       3.71      0.62     -1.04      39.17      28.87      31.96      23.84
    (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BBDM W 1 1 4      6.31       3.67      0.68     -0.99      41.44      26.64      31.92      22.68
    (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BBDP W 1 1 5      6.72       3.62      0.53     -1.12      32.78      33.22      34.01      24.89
    (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BBDS W 1 1 6      6.68       3.78      0.54     -1.23      39.54      25.72      34.74      27.62

    1/I WINT77            MEAN   S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
     STATION MEAN         6.46   3.71     0.61    -1.09   39.7   27.4   32.9   24.4
      STA. ST.DEV.        0.23   0.06     0.06     0.09    4.6    4.0    1.2    1.9


    (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BBFF W 2 1 1      7.71       3.36      0.39     -1.33      14.09      43.93      41.98      31.64
    (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BBFC W 2 1 2      8.11       3.28      0.24     -1.38       8.21      44.92      46.87      34.36
    (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BBFI W 2 1 3      7.86       3.38      0.29     -1.37      14.34      39.49      46.17      33.04
    (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BBFL W 2 1 4      8.52       3.26      0.06     -1.39       8.64      38.27      53.09      39.39
    (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BBFO W 2 1 5      8.39       3.27      0.12     -1.37       9.43      39.76      50.81      38.04
    (1MG)           MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BBFR W 2 1 6      7.70       3.36      0.39     -1.30      14.15      44.24      41.62      31.66

    2/I  WINT 77          MEAN   S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
     STATION MEAN         8.05   3.32     0.25    -1.36   11.5   41.8   46.8   34.7
      STA. ST.DEV.        0.35   0.06     0.14     0.03    3.0    2.9    4.6    3.3
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       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGRW W 1 1 A         5.10       3.34       1.36       0.40     63.71      17.21      19.09      14.56
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGRZ W 2 1           7.78       3.62       0.17      -1.43     21.44      31.10      47.46      35.02
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGSC W 3 1 A         8.96       3.21      -0.25      -1.08      6.77      30.88      62.35      43.36
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGSF W 3 1 B         8.83       3.37      -0.31      -1.07     10.79      27.24      61.98      43.31
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGSI W 1 2 A         7.14       3.62       0.44      -1.31     25.49      34.68      39.82      28.50
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGSL W 1 2 B         8.42       3.40      -0.04      -1.31     11.33      35.75      52.92      39.39
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGSO W 2 2 A         7.68       3.46       0.34      -1.36     15.16      42.36      42.49      32.55
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGSR W 2 2 B         7.34       3.39       0.49      -1.19     17.74      42.63      39.62      27.84
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGSU W 3 2 A         9.57       2.92      -0.37      -0.98      2.44      30.19      67.37      50.43
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGSX W 3 2 B         8.89       3.30      -0.23      -1.21      9.14      30.97      59.89      44.48
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGTA W 1 3           8.50       3.25       0.05      -1.36      5.49      40.96      53.55      38.49
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGTD W 2 3 A         8.92       3.04       0.00      -1.34      1.57      40.38      58.06      41.81
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGTG W 2 3 B         8.52       3.14       0.13      -1.39      2.12      44.73      53.15      37.11
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGTJ W 3/III B       9.51       2.80      -0.20      -1.12      0.55      33.09      66.35      47.72
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGTM W 1 4 A         7.26       4.06       0.04      -1.38     26.52      28.84      44.64      33.10
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGTP W 1/IV B        6.04       4.19       0.44      -1.30     43.53      22.39      34.07      24.93
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGTS W 2 4           7.74       4.05      -0.20      -1.29     23.64      26.70      49.66      36.85
       (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BGTV W 3 4           9.46       3.03      -0.55      -0.52      6.15      24.70      69.15      47.47
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     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCYJ W SB4 1     10.02       2.48      -0.23     -1.06      0.06      27.27      72.67      52.91
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCYM W SB4 2      9.91       2.58      -0.30     -0.91      0.15      26.74      73.11      52.09
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCYP W SB4 3     10.00       2.49      -0.21     -1.11      0.09      27.24      72.67      53.30
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCYS W SB4 4     10.22       2.44      -0.30     -1.05      0.09      21.91      78.00      58.17
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCYV W SB4 5     10.04       2.44      -0.18     -1.15      0.06      25.51      74.43      53.36
     (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCYY W SB4 6      9.91       2.62      -0.30     -1.03      0.08      27.41      72.52      53.38

    WINT.77 SB 4         MEAN    S.D.      SKEW      KURT   %SAND   %SILT   %CLAY  %>10PHI
      STATION MEAN      10.02    2.51     -0.25     -1.05     0.1    26.0    73.9    53.9
       STA. ST.DEV.      0.11    0.07      0.05      0.08     0.0     2.1     2.1     2.2
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BDAP W H R 4 1   10.11        2.47     -0.27    -1.04       0.21      25.60     74.19     55.74
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BDAS W H R 4 2    9.98        2.58     -0.33    -0.90       0.78      25.93     73.30     54.33
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BDAV W H R 4 3   10.06        2.56     -0.30    -1.07       0.32      25.65     74.04     56.07
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BDAY W H R 4 4   10.16        2.45     -0.30    -0.98       0.47      24.56     74.97     56.60
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BDBB W H R 4 5   10.04        2.55     -0.33    -0.91       0.77      26.38     72.86     55.42
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BDBE W H R 4 6   10.23        2.45     -0.37    -0.92       0.29      21.81     77.90     57.67

    WINT.77 HR 4         MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN      10.10    2.51    -0.32    -0.97    0.5   25.0   74.5    56.0
       STA. ST.DEV.      0.09    0.06     0.03     0.07    0.2    1.7    1.8     1.1


     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BCXG W S B 2 1    8.56        3.26      0.07    -1.42       4.99      42.17     52.84     40.33
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BCXJ W S B 2 2    8.26        3.79     -0.32    -0.86      14.24      33.42     52.35     41.77
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BCXM W S B 2 3    8.20        3.50      0.08    -1.40      13.62      37.62     48.77     39.23
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BCXP W S B 2 4    8.57        3.30      0.01    -1.38       7.72      37.43     54.05     40.81
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BCXS W S B 2 5    7.91        3.53      0.11    -1.29      13.22      40.06     46.73     34.98
     (1MG)          MEAN     ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BCXV W S B 2 6    8.56        3.27      0.05    -1.41       6.89      39.86     53.25     40.28

    WINT.77 SB 2         MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN       8.34    3.44    -0.00    -1.29   10.1   38.4   51.5    39.6
       STA. ST.DEV.      0.27    0.21     0.16     0.22    4.0    3.0    3.1     2.4
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        (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCFC W 7 4 1          9.86       2.50      -0.15     -1.07        0.47      24.13      75.40      49.62
        (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCFF W 7 4 2          9.74       2.61      -0.17     -1.13        0.42      29.01      70.57      49.29
        (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCFI W 7 4 3          9.33       2.93      -0.31     -0.85        3.43      30.01      66.56      45.13
        (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCFL W 7 4 4          9.02       3.25      -0.45     -0.60        8.26      30.24      61.50      43.68
        (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCFO W 7 4 5          9.73       2.63      -0.17     -1.14        0.31      29.03      70.67      49.52
        (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCFR W 7 4 6          9.77       2.63      -0.21     -1.07        0.33      28.09      71.58      50.00

     7/4 WINTER 77          MEAN    S.D.      SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN         9.58    2.76     -0.24    -0.98    2.2   28.4   69.4   47.9
        STA. ST.DEV.        0.33    0.28      0.12     0.21    3.2    2.2    4.8    2.7


        (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCZM W HR2 1          9.31       3.02      -0.21     -1.24        2.71      34.54      62.76      48.30
        (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCZP W HR2 2          9.30       3.10      -0.31     -1.08        4.73      31.52      63.76      48.94
        (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCZS W HR2 3          9.18       3.07      -0.16     -1.27        2.27      36.64      61.09      46.70
        (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCZV W HR2 4          9.38       3.00      -0.27     -1.12        2.89      33.55      63.56      49.09
        (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCZY W HR2 5          9.29       3.01      -0.21     -1.24        2.68      31.04      66.28      47.52
        (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BDAB W HR2 6          9.25       3.10      -0.27     -1.13        5.49      31.59      62.92      47.92

     WINT.77 HR 2           MEAN    S.D.      SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN         9.28    3.05     -0.24    -1.18    3.5   33.1   63.4   48.1
        STA. ST.DEV.        0.07    0.04      0.05     0.08    1.3    2.2    1.7    0.9
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      (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCBL W 5 4 1       6.38       4.28       0.32     -1.45     40.40      21.34      38.25      28.63
      (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCBO W 5 4 2       7.08       4.21       0.06     -1.48     32.21      21.70      46.09      32.68
      (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCBR W 5 4 3       7.58       4.13      -0.12     -1.40     24.96      25.67      49.37      37.09
      (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCBU W 5 4 4       8.34       3.68      -0.25     -1.19     13.78      31.72      54.50      40.24
      (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCBX W 5 4 5       6.83       4.22       0.13     -1.48     35.05      21.10      43.86      30.12
      (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND.    % SILT     % CLAY     % >10PHI
BCCA W 5 4 6       6.94       4.28       0.08     -1.50     33.80      21.59      44.61      32.12

    5/4 WINTER 77        MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN       7.19    4.13     0.04    -1.41   30.0   23.9   46.1   33.5
       STA. ST.DEV.      0.68    0.23     0.20     0.12    9.4    4.2    5.5    4.4


      (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCDG W 6 4 1       5.24       4.18       0.79     -1.00     58.88      11.72      29.40      21.09
      (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCDJ W 6 4 2       5.34       4.20       0.75     -1.06     57.81      12.61      29.57      22.12
      (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCDM W 6 4 3       4.44       3.89       1.20     -0.13     67.99      10.51      21.51      15.97
      (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCDP W 6 4 4       4.72       4.04       1.00     -0.54     63.32      12.64      24.04      17.90
      (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCDS W 6 4 5       5.12       4.25       0.80     -0.94     59.50      12.84      27.67      21.86
      (1MG)          MEAN     ST.DEV.   SKEWNESS  KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCDV W 6 4 6       4.97       4.12       0.94     -0.74     62.11      11.15      26.74      20.31

    6/4 WINTER 77        MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN       4.97    4.11     0.91    -0.74   61.6   11.9   26.5   19.9
       STA. ST.DEV.      0.34    0.13     0.17     0.35    3.7    0.9    3.2    2.4
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     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBXN W 3 4 1      6.24       4.24       0.39     -1.40      46.41     16.91      36.69      27.23
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBXQ W 3 4 2      5.38       4.20       0.69     -1.06      56.65     14.33      29.02      21.70
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBXT W 3 4 3      5.91       4.20       0.52     -1.27      50.04     16.60      33.36      24.76
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBXW W 3 4 4      5.11       3.92       0.91     -0.66      59.76     15.36      24.88      18.17
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBXZ W 3 4 5      5.62       3.91       0.83     -0.91      58.31     13.47      28.22      21.40
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBYC W 3 4 6      4.76       3.90       1.07     -0.40      64.69     12.33      22.98      16.89

    3/4 WINTER 77        MEAN    S.D.      SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN       5.50    4.06      0.73    -0.95   56.0   14.8   29.2   21.7
       STA. ST.DEV.      0.54    0.17      0.25     0.38    6.7    1.8    5.1    3.9


     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBZQ W 4 4 1      3.58       2.79       2.23      3.93      82.85      6.77      10.38       6.70
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBZT W 4 4 2      3.25       2.41       2.78      7.05      87.74      4.36       7.89       4.48
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBZW W 4 4 3      3.86       3.16       1.76      1.99      76.81      9.56      13.63       8.92
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBZZ W 4 4 4      3.64       2.90       1.99      3.09      79.06      9.24      11.70       6.93
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCAC W 4 4 5      3.64       2.94       2.04      3.14      82.52      4.76      12.73       7.42
     (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCAF W 4 4 6      3.61       3.08       2.04      3.09      81.72      7.29      10.99       9.12

    4/4 WINTER 77        MEAN    S.D.      SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
      STATION MEAN       3.60    2.88      2.14     3.72   81.8    7.0   11.2    7.3
       STA. ST.DEV.      0.20    0.26      0.35     1.75    3.7    2.2    2.0    1.7
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        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BBSZ W 1 4 1          5.87       4.03      0.43      -1.24       46.96       20.25       32.79       19.47
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BBTC W 1 4 2          5.17       4.08      0.81      -0.90       58.69       13.13       28.18       19.24
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BBTF W 1 4 3          4.63       3.87      1.10      -0.31       67.35        8.80       23.85       15.54
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BBTI W 1 4 4          5.47       4.21      0.65      -1.12       54.25       14.39       31.36       22.09
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BBTL W 1 4 5          5.07       3.93      0.91      -0.70       56.73       17.07       26.19       17.59
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BBTO W 1 4 6          4.82       3.89      1.01      -0.52       64.04       11.26       24.70       16.13

    1/4 WINTER 77         MEAN    S.D.      SKEW      KURT   %SAND   %SILT   %CLAY   %>10PHI
      STATION MEAN        5.17    4.00      0.82     -0.80    58.0    14.2    27.8    18.3
       STA. ST.DEV.       0.45    0.13      0.24      0.36     7.2     4.1     3.6     2.4



        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BBVI W 2 4 1          5.22       4.17      0.77      -0.99       57.17       13.64       29.19       20.91
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BBVL W 2 4 2          5.97       4.36      0.45      -1.41       48.52       16.22       35.26       26.63
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BBVO W 2 4 3          4.90       4.15      0.89      -0.77       61.23       12.94       25.83       19.39
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BBVR W 2 4 4          5.45       4.23      0.70      -1.13       55.21       14.59       30.19       22.70
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BBVU W 2 4 5          5.59       4.23      0.64      -1.20       53.46       15.32       31.22       23.21
        (1MG)          MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BBVX W 2 4 6          5.29       4.19      0.72      -1.05       56.09       14.88       29.03       20.84

    2/4 WINTER 77         MEAN    S.D.      SKEW      KURT   %SAND   %SILT   %CLAY   %>10PHI
      STATION MEAN        5.40    4.22      0.69     -1.09    55.3    14.6    30.1    22.3
       STA. ST.DEV.       0.36    0.07      0.15      0.22     4.2     1.2     3.1     2.5
      (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BBQH W 5 3 1       8.56        3.29       0.03      -1.44       4.21       42.20       53.59       40.31
      (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BBQK W 5 3 2       9.02        3.21      -0.14      -1.36       3.14       37.52       59.34       46.90
      (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BBQN W 5 3 3       8.49        3.25       0.11      -1.41       3.95       43.98       52.07       39.21
      (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BBQQ W 5 3 4       8.57        3.39      -0.04      -1.34       5.88       40.39       53.72       42.54
      (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BBQT W 5 3 5       8.90        3.19      -0.08      -1.35       3.97       38.55       57.48       44.24
      (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BBQW W 5 3 6       9.08        3.23      -0.21      -1.33       4.19       35.93       59.88       47.70

    5/3 WINTER 77          MEAN     S.D.      SKEW       KURT   %SAND   %SILT   %CLAY  %>10PHI
      STATION MEAN         8.77     3.26     -0.06      -1.37    4.2     39.8    56.0    43.5
       STA. ST.DEV.        0.26     0.07      0.12       0.04    0.9      3.0     3.3     3.4


      (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BBRQ W 6 3 1       9.57        2.83      -0.30      -1.01       1.67       30.48       67.85       48.87
      (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BBRT W 6 3 2       9.79        2.66      -0.27      -0.97       0.83       28.54       70.64       51.03
      (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BBRW W 6 3 3       9.60        2.74      -0.24      -0.98       1.48       29.23       69.29       47.95
      (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BBRZ W 6 3 4       9.55        2.80      -0.23      -1.09       0.84       30.81       68.35       48.33
      (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BBSC W 6 3 5       9.73        2.67      -0.27      -0.98       0.90       28.35       70.75       49.68
      (1MG)          MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BBSF W 6 3 6       9.65        2.73      -0.23      -1.05       0.85       30.24       68.91       49.18

    6/3 WINTER 77          MEAN     S.D.      SKEW       KURT   %SAND   %SILT   %CLAY  %>10PHI
      STATION MEAN         9.65     2.74     -0.26      -1.02    1.1     29.6    69.3    49.2
       STA. ST.DEV.        0.10     0.07      0.03       0.05    0.4      1.0     1.2     1.1
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  (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBNG W 3 3 1      9.29      3.00      -0.17     -1.27        2.14       35.22      62.64      47.98
  (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBNJ W 3 3 2      9.45      2.95      -0.24     -1.19        1.75       33.56      64.69      49.69
  (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBNM W 3 3 3      9.62      2.85      -0.31     -1.09        2.22       30.92      66.85      50.74
  (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBNP W 3 3 4      9.36      2.90      -0.14     -1.26        1.62       34.90      63.40      47.04
  (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBNS W 3 3 5      9.32      2.93      -0.17     -1.21        2.35       32.82      64.83      46.87
  (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBNV W 3 3 6      9.65      2.82      -0.31     -1.05        0.99       30.62      68.39      50.87

    3/3 WINTER 77         MEAN   S.D.     SKEW     KURT   %SAND   %SILT   %CLAY  %>10PHI
      STATION MEAN        9.45   2.91    -0.22    -1.18    1.8    33.0    65.1    48.9
       STA. ST.DEV.       0.15   0.07     0.07     0.09    0.5     1.9     2.1     1.8


  (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBOY W 4 3 1      4.37      2.63       2.34      4.20       78.84      10.00      11.16       8.35
  (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBPB W 4 3 2      4.02      2.29       2.90      7.46       86.46       5.33       8.21       5.86
  (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBPE W 4 3 3      4.23      2.45       2.59      5.61       80.38      10.07       9.55       7.09
  (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBPH W 4 3 4      4.16      2.51       2.55      5.42       82.31       7.87       9.82       7.40
  (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBPK W 4 3 5      4.22      2.47       2.58      5.48       81.71       8.51       9.77       7.13
  (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BBPN W 4 3 6      4.24      2.47       2.57      5.49       80.32      10.07       9.61       7.24

    4/3 WINTER 77         MEAN   S.D.     SKEW     KURT   %SAND   %SILT   %CLAY  %>10PHI
      STATION MEAN        4.21   2.47     2.59     5.61   81.7     8.6     9.7     7.2
       STA. ST.DEV.       0.11   0.11     0.18     1.05    2.6     1.9     0.9     0.8
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     (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
 BBIY W 1 3 1       8.77       3.21      -0.07     -1.30       6.68      36.66      56.66      41.72
     (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
 BBJB W 1 3 2       8.83       3.15      -0.04     -1.32       4.26      39.30      56.35      42.34
     (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
 BBJE W 1 3 3       8.21       3.29       0.18     -1.38       7.40      44.09      48.51      35.72
     (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
 BBJH W 1 3 4       8.56       3.16       0.10     -1.33       5.34      43.09      51.57      38.37
     (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
 BBJK W 1 3 5       8.15       3.30       0.22     -1.38       6.28      45.38      48.34      35.32
     (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
 BBJN W 1 3 6       9.64       2.74      -0.25     -1.02       1.31      29.78      68.91      49.18

    1/3 WINTER 77         MEAN    S.D.      SKEW     KURT  %SAND   %SILT  %CLAY  %>10PHI
      STATION MEAN        8.69    3.14      0.02    -1.29    5.2    39.7   55.1   40.4
       STA. ST.DEV.       0.54    0.21      0.18     0.14    2.2     5.8    7.7    5.2


     (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
 BBLC W 2 3 1       8.45       3.31       0.06     -1.41      10.52      37.43      52.05      38.62
     (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
 BBLF W 2 3 2       8.71       3.15       0.00     -1.32       4.78      38.26      56.96      39.88
     (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
 BBLI W 2 3 3       8.50       3.31       0.03     -1.40       6.83      38.26      54.91      39.56
     (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
 BBLL W 2 3 4       8.59       3.23       0.01     -1.37       6.69      34.34      58.97      38.99
     (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
 BBLO W 2 3 5       8.54       3.30       0.02     -1.39       8.06      38.38      53.56      40.05
     (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
 BBLR W 2 3 6       8.51       3.27       0.06     -1.39       7.71      39.58      52.71      39.39

    2/3 WINTER 77         MEAN    S.D.      SKEW     KURT  %SAND   %SILT  %CLAY  %>10PHI
      STATION MEAN        8.55    3.26      0.03    -1.38    7.4    37.7   54.9   39.4
       STA. ST.DEV.       0.09    0.06      0.02     0.03    1.9     1.8    2.7    0.5
      (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCTW W 5 2 1          8.40       3.35      0.05      -1.40     10.25      36.36      53.39      38.94
      (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCTZ W 5 2 2          8.55       3.33     -0.01      -1.38     10.90      36.11      53.00      40.54
      (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCUC W 5 2 3          8.60       3.32     -0.01      -1.40      8.72      37.21      54.07      41.72
      (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCUF W 5 2 4          8.28       3.38      0.11      -1.42     11.01      38.93      50.07      38.24
      (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCUI W 5 2 5          8.59       3.28      0.00      -1.35      8.50      41.58      49.92      41.03
      (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCUL W 5 2 6          8.39       3.31      0.09      -1.40      8.54      39.95      51.52      38.31

    5/2 WINTER 77          MEAN    S.D.      SKEW      KURT   %SAND   %SILT   %CLAY  %>10PHI
      STATION MEAN         8.47    3.33      0.04     -1.39     9.7    38.4    52.0    39.8
       STA. ST.DEV.        0.13    0.03      0.05      0.02     1.2     2.2     1.8     1.5


      (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCVO W 6 2 1          9.79       2.76     -0.28      -1.17      0.33      29.56      70.11      53.60
      (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCVR W 6 2 2          9.38       2.96     -0.21      -1.22      1.81      34.21      63.98      48.56
      (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCVU W 6 2 3          9.58       2.87     -0.23      -1.24      0.49      32.58      66.93      51.18
      (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCVX W 6 2 4          9.52       2.82     -0.20      -1.16      0.27      34.55      65.19      48.71
      (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCWA W 6 2 5          9.47       2.89     -0.28      -1.03      2.85      30.08      67.07      48.51
      (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS    % SAND     % SILT     % CLAY     % >10PHI
BCWD W 6 2 6          9.47       2.89     -0.20      -1.22      0.43      35.22      64.35      49.15

    6/2 WINTER 77          MEAN    S.D.      SKEW      KURT   %SAND   %SILT   %CLAY  %>10PHI
      STATION MEAN         9.54    2.86     -0.23     -1.17     1.0    32.7    66.3    50.0
       STA. ST.DEV.        0.14    0.07      0.04      0.08     1.1     2.4     2.3     2.1
       (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCQD W 3 2 1        9.78        2.75      -0.41      -0.70       1.73       26.88      71.39      52.23
       (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCQG W 3 2 2        9.66        2.79      -0.36      -0.82       2.11       29.27      68.62      50.14
       (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCQJ W 3 2 3        9.46        2.82      -0.19      -1.12       0.29       34.84      64.87      47.01
       (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCQM W 3 2 4        9.73        2.71      -0.33      -0.85       1.13       30.36      68.51      50.04
       (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCQP W 3 2 5        9.69        2.73      -0.31      -0.89       1.56       30.12      68.32      49.97
       (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCQS W 3 2 6        9.53        2.84      -0.27      -1.05       0.83       31.31      67.86      48.62

     3/2 WINTER 77          MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN         9.64    2.77    -0.31    -0.91    1.3   30.5   68.3   49.7
        STA. ST.DEV.        0.12    0.05     0.07     0.15    0.7    2.6    2.1    1.7


       (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCSE W 4 2 1        7.55        3.30       0.51      -1.25       4.29       55.61      40.10      29.25
       (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCSH W 4 2 2        7.36        3.31       0.57      -1.16      11.26       51.44      37.30      27.53
       (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCSK W 4 2 3        6.50        3.21       0.96      -0.52      25.67       46.39      27.94      20.38
       (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCSN W 4 2 4        7.76        3.38       0.32      -1.32      11.94       45.10      42.96      31.85
       (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCSQ W 4 2 5        7.44        3.39       0.48      -1.25      14.89       45.77      39.34      29.26
       (1MG)           MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND     % SILT     % CLAY     % >10PHI
BCST W 4 2 6        8.09        3.37       0.21      -1.39      10.99       44.77      44.24      36.00

     4/2 WINTER 77          MEAN    S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN         7.45    3.33     0.51    -1.15   13.2   48.2   38.6   29.0
        STA. ST.DEV.        0.53    0.07     0.26     0.32    7.0    4.4    5.8    5.2
     (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BCMB W 1 2 1         6.31       3.56       0.75     -0.86       36.09       34.45       29.47       21.97
     (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BCME W 1 2 2         8.20       3.46       0.02     -1.31       13.67       36.22       50.11       36.99
     (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BCMH W 1 2 3         4.97       3.16       1.63      1.18       65.33       16.71       17.96       14.00
     (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BCMK W 1 2 4         6.73       3.34       0.77     -0.82       21.09       47.52       31.39       22.94
     (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BCMN W 1 2 5         6.18       3.57       0.82     -0.77       35.29       37.36       27.35       21.99
     (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BCMQ W 1 2 6         7.38       3.32       0.53     -1.12       12.10       50.40       37.49       27.74

     1/2 WINTER 77          MEAN    S.D.      SKEW      KURT   %SAND   %SILT   %CLAY   %>10PHI
       STATION MEAN         6.63    3.40      0.75     -0.62    30.6    37.1    32.3    24.3
         STA. ST.DEV.       1.10    0.16      0.52      0.91    19.9    11.9    10.8     7.6


     (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BCOC W 2 2 1         7.85       3.34       0.32     -1.34       11.81       43.60       44.59       32.38
     (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BCOF W 2 2 2         7.74       3.31       0.40     -1.29        8.68       48.82       42.50       31.07
     (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BCOI W 2 2 3         7.85       3.37       0.28     -1.34       15.25       40.06       44.69       32.45
     (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BCOL W 2 2 4         7.23       3.32       0.57     -1.11       17.94       44.48       37.58       26.03
     (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BCOO W 2 2 5         7.39       3.42       0.49     -1.24       17.41       44.18       38.41       29.65
     (1MG)            MEAN     ST.DEV.   SKEWNESS   KURTOSIS     % SAND      % SILT      % CLAY      % >10PHI
BCOR W 2 2 6         8.01       3.32       0.22     -1.33       11.85       40.67       47.47       33.27

     2/2 WINTER 77          MEAN    S.D.      SKEW      KURT   %SAND   %SILT   %CLAY   %>10PHI
       STATION MEAN         7.68    3.35      0.38     -1.27    13.8    43.6    42.5    30.8
         STA. ST.DEV.       0.30    0.04      0.13      0.09     3.6     3.1     3.9     2.7
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        (1MG)           MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BCJD W 5 1 1        10.27        2.40      -0.37      -0.78        0.65       21.71       77.64       58.24
        (1MG)           MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BCJG W 5 1 2         9.92        2.79      -0.51      -0.70        1.75       25.78       72.47       56.45
        (1MG)           MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BCJJ W 5 1 3         8.57        3.40      -0.12      -1.28       13.25       35.25       51.50       41.51
        (1MG)           MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BCJM W 5 1 4         9.11        3.12      -0.23      -1.14        4.95       34.34       60.71       45.52
        (1MG)           MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BCJP W 5 1 5         8.92        3.22      -0.20      -1.18        7.49       33.24       59.26       43.83
        (1MG)           MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BCJS W 5 1 6         9.09        3.15      -0.27      -1.07        6.47       32.47       61.05       45.22

      5/I  WINT 77         MEAN    S.D.     SKEW     KURT  %SAND   %SILT  %CLAY  %>10PHI
       STATION MEAN        9.31    3.01    -0.28    -1.02    5.8    30.5   63.8    48.5
        STA. ST.DEV.       0.64    0.36     0.14     0.23    4.5     5.4    9.5     7.0


        (1MG)           MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BCKP W 6 1 1         7.23        3.24       0.30      -1.09       18.04       39.51       42.45       19.48
        (1MG)           MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BCKS W 6 1 2         7.84        3.52       0.18      -1.34       16.36       38.41       45.24       34.19
        (1MG)           MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BCKV W 6 1 3         8.18        3.48       0.07      -1.39       13.91       37.25       48.84       37.74
        (1MG)           MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BCKY W 6 1 4         7.92        3.47       0.19      -1.35       13.47       41.21       45.32       34.93
        (1MG)           MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BCLB W 6 1 5         7.91        3.47       0.17      -1.32       13.87       40.49       45.64       34.28
        (1MG)           MEAN      ST.DEV.   SKEWNESS   KURTOSIS      % SAND      % SILT      % CLAY      % >10PHI
BCLE W 6 1 6         7.83        3.51       0.21      -1.36       16.21       39.11       44.68       34.51

      6/I  WINT 77         MEAN    S.D.     SKEW     KURT  %SAND   %SILT  %CLAY  %>10PHI
       STATION MEAN        7.82    3.45     0.19    -1.31   15.3    39.3   45.4    32.5
        STA. ST.DEV.       0.31    0.10     0.07     0.11    1.8     1.4    2.1     6.5
       (1MG)            MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BBHA W 3 1 1           9.23     3.13     -0.33    -1.01      5.30     31.62     63.08     47.61
       (1MG)            MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BBHD W 3 1 2           9.28     3.06     -0.27    -1.08      3.94     32.96     63.10     47.56
       (1MG)            MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BBHG W 3 1 3           9.20     3.16     -0.36    -0.99      5.24     31.22     63.55     46.75
       (1MG)            MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BBHJ W 3 1 4           9.28     3.09     -0.34    -1.00      5.04     28.74     66.22     47.60
       (1MG)            MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BBHM W 3 1 5           8.68     3.44     -0.21    -1.24     12.06     30.22     57.73     43.11
       (1MG)            MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BBHP W 3 1 6           8.18     3.41      0.12    -1.37     10.90     40.72     48.38     37.37

      3/I  WINT 77          MEAN   S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN         8.98   3.22    -0.23    -1.11    7.1   32.6   60.3   45.0
        STA. ST.DEV.        0.45   0.17     0.18     0.16    3.5    4.2    6.5    4.1


       (1MG)            MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BCHR W 4 1 1           5.50     3.97      0.84    -0.89     57.77     14.36     27.87     21.46
       (1MG)            MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BCHU W 4 1 2           4.65     3.50      1.39     0.46     68.70     12.46     18.84     14.28
       (1MG)            MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BCHX W 4 1 3           5.05     3.66      1.18    -0.10     61.88     16.83     21.29     17.60
       (1MG)            MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BCIA W 4 1 4           4.82     3.66      1.23    -0.02     68.56      9.83     21.61     15.82
       (1MG)            MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BCID W 4 1 5           5.25     3.79      1.00    -0.52     60.50     15.05     24.45     18.61
       (1MG)            MEAN    ST.DEV.  SKEWNESS  KURTOSIS    % SAND    % SILT    % CLAY    % >10PHI
BCIG W 4 1 6           5.03     3.69      1.12    -0.23     62.63     15.03     22.34     16.94

      4/I  WINT 77          MEAN   S.D.     SKEW     KURT  %SAND  %SILT  %CLAY  %>10PHI
       STATION MEAN         5.05   3.71     1.12    -0.22   63.3   13.9   22.7   17.4
        STA. ST.DEV.        0.30   0.16     0.19     0.46    4.4    2.5    3.1    2.5
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